



INTRODUCTION

TO

BOTANY.

CONTAINING

AN EXPLANATION

OF THE

THEORY OF THAT SCIENCE;

EXTRACTED FROM THE

WORKS OF DR. LINNÆUS;

WITH

TWELVE COPPER PLATES,

TWO EXPLANATORY TABLES,

AN

APPENDIX,

AND

GLOSSARY.

THE FIFTH EDITION, CORRECTED,

By JAMES LEE, NURSERYMAN, AT THE VINEYARD, HAMMERSMITH.

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PREFACE.

HOUGH the Study of Botany is of late Years become a very general Amusement in this Country, there has yet appeared no Work, in our own Language, that profesfedly treats of the Elements of that Science; it is therefore hoped, that what is now offered to the Public, if it shall appear to have been carefully executed, will be considered as a Performance of some Utility. The Matter it contains, or at least the far greater Part of it, will probably be new to the English Reader; for though some few Explantations of the fame Kind may be found interspersed in larger Works, these are for the most Part too costly to fall into many Hands: nor could the Reader expect to find therein the Whole of what he feeks, the explaining the Theory of the Science not having been the immediate Object of those Publications.

The Matter of the following Sheets has been collected from the Works of the celebrated Dr.

Linnaus:

Linnaus; whose Labours for the Reformation of this Science in general, and whose Invention of the Sexual System in particular, are well known. As the Writings of this learned Professor are interspersed with philosophical and critical Remarks, that are of less general Use, it was thought that a direct Translation of any of his Works would not be fo well received, as what is now given; which contains an Extract of his most material Doctrines. The Method in which these have been distributed in the following Chapters, we propose to explain; but to render this more intelligible, it will be expedient to lay before the Reader a short Account of those Discoveries that have given Occasion to the Moulding of this Science into a Form fo different from that in which it appeared in the last Century.

The Sexual System of Botany, as its Title imports, is sounded on a Discovery that there is in Vegetables, as well as in Animals, a Distinction of the Sexes. This was not wholly unknown to the Ancients; but their Knowledge of it was very impersect. In order to shew in what Respect this Discovery has been investigated farther by the Moderns, it will be necessary to anticipate

cipate Part of the Subject Matter of the following Chapters.

It will be feen in the Course of this Work, that the Flowers of the Generality of Vegetables are Hermaphrodite, containing within them the Characters of both Sexes; but that in the Classes Monoecia and Dioecia, the Sexes are parted, and allotted to different Flowers; and that in the Class Dioecia in particular, the Sexes are even on different Plants, the Male Flowers growing all upon one Plant, and the Femal- upon another. Now this last Circumstance the Ancients had obferved: indeed it could hardly escape their Notice; for the Palm-Tree, whose Fruit was in Esteem, being of the Class Dioecia, a very little Observation was requisite to teach them, that in these Trees the Flowers of the Male were neceffary to ripen the Fruit of the Female. Accordingly we find, in the Account given by Herodotus * of the Country about Babylon, where these Trees are in plenty, that it was a Custom with the Natives, in their Culture of this Plant, to assist the Operations of Nature, by gathering the Flowers of the Male Trees, and carrying

* Book the First.

them to the Female. By this means they fecured the ripening of the Fruit; which might elfe, from unfavourable Seafons, or the Want of a proper Intermixture of the Trees of each Sex, have been precarious, or at least not to have been expected in equal Quantities.

It feems pretty extraordinary, that this Discovery should not have led the Ancients to detect the whole Process of Nature in the Propagation of the various Species of Vegetables; and yet it does not appear, by any of their Writings, that are come down to us, that they went farther than this obvious Remark upon the Palm-Tree, and some similar Notions concerning the Fig. They had indeed, from what they saw in these Plants, formed a Notion that all others were Male and Female likewise*; but this Notion

^{*} Thus Theophrastus:

[&]quot;In Trees, confidered univerfally, and taking in each feveral Kind, there are, as has been faid many Differences. One of these is common to them all,
manely, that by which they are distinguished into
Female and Male, of which the one bears Fruit,
the other not, in some Kinds; in those in which
both bear Fruit, that of the Female is the best, unless these are to be called Males, for so they are
called by some."

was false, the far greater Part having Hermaphrodite Flowers, and serves to convince us, that what they discovered of the Palm and Fig, was only a right Guess, and not sounded on any Knowledge of the Anatomy of Flowers, either in those Trees, or any others.

In this dark State the Doctrine of the Sexes of Vegetables remained, not only through all the Ages of Antiquity, but almost to the End of the last Century, the Moderns seeing no more of this Doctrine than the Ancients had done before them; and hence we have to this very Hour in Use, the false Distinctions of Male and Female Species of Cornus, Paony, Cistus, and many others, which have all Hermaphrodite Flowers, the Distinction in these Cases being grounded on nothing more than some Difference in the Habit of the two Species with which the Sexes are no ways concerned.

The Honour of having first suggested the true sexual Distinctions in Plants appears to be due to our own Countryman, Sir Thomas Millington; from whose Hints Dr. Grew, as the Doctor himself acknowledges, was led to the Observations he has given on this Subject, in his

Anatomy of Plants*. After this, Camerarius, Moreland, Geoffroy, Vaillant, Blair, Justieu, and Bradley, pursued their Enquiries and Experiments so far as to remove all Doubt concerning these Discoveries; and, lastly, Doctor Linnaus sounded thereon the System of Botany, which we are going to explain in this Work.

The Sexual Hypothesis, on its first Appearance, was received with all that Caution that becomes an enlightened Age; and Nature was traced experimentally through all her Variations, before it was universally assented to. Tournesort refused to give it any Place in his System; and Pontedera, though he had examined it, treated it as chimerical; but the Proofs which Dr. Linnæus has stated amongst the Aphorisms of his Funda-

^{*} Published in the Year 1682. The Doctor expresses himself thus: "In Discourse hereof with our learned "Savilian Professor, Sir Thomas Millington, he told me, "he conceived that the Attire doth serve as the Male, for the Generation of the Seed. I immediately replied, that I was of the same Opinion, and gave him some Reasons for it, and answered some Ober jections which might oppose them, &c." Anat. of Plants, 171.

menta Botanica*, and farther explained and illustrated in his Philosophia Botanica†, are so clear, that the Birth of Animals is not more evidently the Consequence of an Intercourse between the Sexes, than that of Vegetables; and it would be now as ridiculous for any one, who has looked at the Arguments, to doubt of the one as of the other.

We shall not attempt to lay all these Proofs before the Reader; our business is to explain, not demonstrate; but as it may be satisfactory to see some one Fact established, that carries Conviction with it, we shall here give an Extract of a Letter from Berlin, inserted in the Philosophical Transactions; concerning a remarkable Experiment made on the Palm-Tree.

Extract of Mr. Mylius's Letter to Mr. Watson, dated at Berlin, Feb. 20, 1750—51.

"The Sex of Plants is very well confirmed, by an Experiment that has been made here on the Palma major foliis flabelliformibus. There

^{*} Aphorism 132 to 150.

⁺ Page 86 to 96.

¹ Vol. xlvii. Page 169.

" is a great Tree of this Kind in the Garden of " the Royal Academy. It has flowered and " bore fruit these thirty years, but the Fruit " never ripened, and when planted, it did not " vegetate. The Palm-Tree, as you know, is " a Planta Dioecia, that is, one of those in which " the male and female Parts of Generation are " upon different Plants. We having therefore " no Male Plants, the Flowers of our Female " were never impregnated with the Farina of "the Male. There is a Male Plant of this "Kind in a Garden at Leipsic, twenty German " miles from Berlin. We procured from " thence, in April, 1749, a Branch of male " Flowers, and suspended it over our female " ones; and our Experiment succeeded so well, " that our Palm-Tree produced more than an " Hundred perfectly ripe Fruit; from which "we have already eleven young Palm-Trees. "This Experiment was repeated last Year, " and our Palm-I ree bore above two Thousand " ripe Fruit. As I do not remember a like Experiment, I thought it convenient to " mention it to you; and, if you think proper, " be pleased to communicate it to the Royal Society."

This Letter, which was read to the Society the 2d of May, 1751, with some ingenious Observations on the same Subject, by Dr. Watson, F. R. S. to whom it was addressed *, has established the Fact, attested by the Ancients, concerning the Palm-Tree, which fome may perhaps have looked upon as fabulous; and, as the Fructification in other Vegetables, though it may differ in particular Circumstances, has yet in general a manifest Conformity with that of the Palm-Tree, in respect to the Parts supposed to be the Organs of Generation, which are discoverable either on the same, or on a separate Flower, in all but the Class Cryptogamia, where they are too minute for Observation; so from this single Experiment we may fairly draw an Argument by Analogy for the Confirmation of the whole sexual Hypothesis: But there are, as has been faid, other, and better Proofs. We have already directed the Reader to those stated by Linnaus; whoever desires farther Satisfaction concerning this Point, may fee the feveral Demonstrations collected, and methodically connected in the Sponsalia Plantarum of J. Gustavus Walkbloom,

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^{*} Printed also in the Philosophical Transactions with the Letter.

published in the Amanitates Academica at Leyden, in 1749.

Having thus explained, as far as feems necessary, the new Principles upon which the Reformation of the former vicious Systems of Botany has been undertaken by the later Botanists, we come to shew, as we proposed, the Method that has been followed in this Introduction to the Science.

The Work is divided into three Parts, and each Part into fundry Chapters. The Subject of each Chapter may be feen in the Table of Contents prefixed to the Work; but with refpect to the three Parts, as no Title or Head explanatory of the Matter each contains, could be conveniently prefixed to them, it will be proper to explain here the Scope of this Division.

Vegetables, according to Limaus, are primarily divisible into three Parts. 1. The Root.

2. The Herb or Plant itself. 3. The Frustification. And in this Order these Parts might have been treated, were it not on Account of the Sexual System; but as the Explanation of the latter was the principal Object of this Work,

it became necessary to give up the Order of the Parts of the Vegetable, and follow that of, the System.

The System is divided, 1. into Classes. 2. Orders. 3. Genera. 4. Species. 5. Varieties. Now as the Classes, Orders, and Genera, which come first in the System, are established on the Frustification alone, it became necessary to give this Part of the Vegetable the Preserence in Point of Order; and we have accordingly made the Frustification the Subject of the several Chapters of the first Part of this Work.

In the second Part, we have given a full Explanation of the Classes, Orders and Genera of the System; which indeed contain the whole Theoretic Part of it, the Doctrines of Species and Varieties having, as Linneus observes, a nearer Relation to the Practice. The Reason for proceeding to the System immediately after the Fructification is manifest; as the Theory of the System is established on the Fructification alone, an Account of the latter was all that was necessary to prepare the Reader for understanding the Explanation of the former, which, as has been said, was the principal Object of the Work.

In the third and last Part, the two remaining Parts of the Vegetable, viz. the Root and Herb, are treated of: And as these chiesly furnish the Doctrines that respect the two last Divisions of the System, viz. Species and Varieties, so these Doctrines are also included in this third Part, and make the Conclusion of the Work.

The two Tables subjoined to the Work, have their Explanation prefixed; and we shall only speak here of their Utility. It is presumed that no exact Table of the Linnean Genera with their English Names, and a Reference to their Classes and Orders, as given in the first Table, has yet appeared in Print, our Writers not having adopted all the Linnean Names, nor followed that Author exactly in his Distribution of Vegetables; our first Table, therefore, cannot but be of great Use to those who are desirous of becoming acquainted with the Method of Linneus, and of framing the Lists of their private Collections upon the Plan of his System.

The Utility of the second Table, which contains the Names of the Genera rejected by Lin-

næus,

neus, is obvious; it might have been augmented to ten Times its Bulk, had all the Names been inferted that have been given to Vegetables by the numerous Writers on this Science; but fuch a Collection would be a Work of itself; and it has been, therefore, thought adviseable to confine it to those only that are cited in the Genera Plantarum of Linnaus, which contains the principal.

The Table of English Specific and Generic Names referred to in their Linnaan Titles, which is given in the Appendix, was not originally intended to have been added to the Work: but its utility to the English Botanist having been warmly insisted on by some of the Author's Friends, it was prepared whilft the rest of the Work was under the Press, and subjoined to it as an Appendix. It has been executed with Care: If, nevertheless, any Mistakes or material Omissions should appear, those who are versed in Botany will be the most ready to excuse them, as they must know the Difficulty of fugh an Undertaking, on Account of the great Number of Removes, made by Dr. Linnaus, of particular Species, as well as of Genera, from their old Stations; this Difficulty was the greater, because the Method of Linnaus has hitherto been but partially adopted by our Writers, and therefore no Table given in any Work already published, could be depended on.

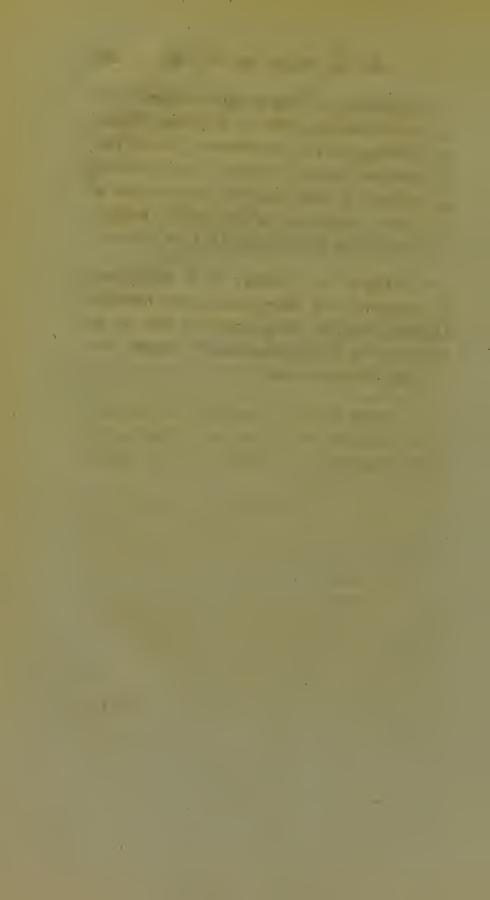
The Designs of the Figures of the Plates are for the most Part taken from those given by Linnaus in his Works. Some of them might, perhaps, have been mended by fresh Defigns from Nature; but as the Work here given to the Public is professedly an Extract of the Linnaan Doctrines, it was thought that the Figures be had himself selected, would, upon the whole, come the nearest to his own Meaning, and be of the greatest Help in explaining it.

The Reader will find placed before the Glossary, a Collection of all the Terms of Art, explained and numbered; the Use of these Terms, so collected, will appear evident, from the Manner of their Arrangement, beginning with the Root, and continued through the Trunk, Branches, Leaves, and Fructification.

This will be necessary on all Occasions to the Learner in Botany, either in describing Plants, or in finding out the true Meaning of the Descriptions of Authors; every Term respecting the different Parts of the Plant, may be feen at one View, belonging to the Article wanted, whether it is the Root, Stem, Leaf, or Flower.

The Use of the Glossary is to affist young Beginners who are unacquainted with scientific Method; and can with greater Ease turn to an Alphabet for the Explanation of a Term, than to classical Arrangement.

The whole Work is corrected and enlarged by an Addition of all the new Genera, collected from the last Edition of the Systema Natura.



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INTRODUCTION

TO

B O T A N Y.

PART THE FIRST.

CHAP. I.

Of the seven Parts of FRUCTIFICATION.

BY Fructification we are to understand both the Flower and Fruit of Plants; which cannot well be separated: For though the Fruit does not swell and ripen till after the Flower is fallen, its Rudiment, or first Beginning, is in the Flower, of which it properly makes a Part. Linnaus defines the Fructification to be a temporary Part of Vegetables, allotted to Generation, terminating the old Vegetable, and beginning

ning the new. It consists of seven principal Parts, viz.

1. The CALYX, Empalement, or Flower-

cup.

2. The COROLLA, Foliation, vulgarly called, the Leaves of the Flower.

3. The STAMINA, Threads, vulgarly

called, the Chives.

4. The PISTILLUM, Pointal.

5. The PERICARPIUM, Seed-Vessel.

.6. The SEMINA, Seeds themselves.

7. The RECEPTACLE, Base, on which the Fructification is feated.

All these Parts, and their several Uses, will be particularly explained in the following Chapters; and it is sufficient to observe here, that the four sirst, viz. Calyx*, Corolla, Stamina, and Pistillum, are properly Parts of the Flower; and the three last, Pericarpium, Semina, and Receptacle, Parts of the Fruit; and that it is from the Number, Proportion, Positions, and other Circumstances attending these Parts of Fructification, that the Classes of Vegetables, and

the

^{*} That the Calyx is a Part of the Flower, though it often attends the Fruit, is manifest from hence; that there is no Instance of its coming out after the Plant has done flowering, although in the *Patagonula* the Calyx is observed to grow to a much larger Size in the Fruit than it had in the flower.

the Genera they contain, are to be characterized according to the fexual System.

CHAP. II.

Of the CALYX.

THE CALYX is the Termination of the Cortex, or outer Bark, of the Plant; which, after accompanying the Trunk or Stem through all its Branches, breaks out with the Flower, and is present in the Fructification in this new Form. Its chief use is to enclose and protect the other parts. It has received different Appellations, according to the Circumstances with which it is attended, viz.

PERIANTHIUM, a Flower-cup, when its Station is close to the Fructification. If it includes the Stamina, and not the Germen, it is the Perianthium of the Flower; if the Germen, but not the Stamina, the Perianthium of the Fruit; but if it includes both, it is the Perianthium of the Fructification.

INVOLUCRUM, a Cover, when stationed at the Foot of an Umbel, at a Distance from the Flower; it is an universal Involucrum, if it is under the universal Umbel; or a partial one, if under a partial.

 B_2 AMEN-

AMENTUM, Catkin, when it proceeds from one common Receptacle, refembling the Chaff of an Ear of Corn.

SPATHA, Sheath, when it bursts length-

ways, and puts forth a Spadix *.

GLUME, Husk, in graffes, which it folds over with its Valves; and the sharp Point or Beard issuing from the Glume is called an Arista.

CALYPTRA, a Veil, in Mosses, where it is placed over the Anthera, tops of the Stamina, and is hooded like a Monk's Cowl.

VOLVA, from its involving, or enfolding, in the Fungi, or Mushroom tribe, where it is membranaceous, and rent on all Sides.

It is fometimes difficult to distinguish a Calyx from the Bractea, floral Leaf †, fuch as

is

* Spadix properly fignifies the Receptacle of a Palm: fee Chap. 8. But Spatha is not confined only to fuch Plants as have a Spadix in this Sense of the Term, but is applied to Narcissus, Galanthus, Pancratium, and many others, whose Flower-stalks come out of a Sheath. Spadix therefore is here to be understood in a more general Sense: Agreeable to such Latitude we shall find it used in Chap. 19, under the Head of spadiceous aggregate Flowers, to express the common Receptacle in Calla, Dracontium, Pothos, Arum, and Zostera, as well as in the Palms.

+ In many Plants there are found green Leaves amongst the Flowers, that differ in Shape from the original Leaves of the Plant. These are the Bractea, or floral Leaves, here spoken of. They are commonly situated on the

is found to accompany the Fructification of the Tilia, Lavendula, Melampyrum, and others. They may be distinguished by this certain Rule, that a Calyx always withers when the Fruit is ripe, if not before; but the Bractea will remain longer. Without attending to this, Mistakes might easily be made in Helleborus, Nigella, Passiflora, Hepatica, Peganum, and others, in which the Calyx is wanting. The Distinction between a Calyx and Corolla in doubtful cases will be treated of in the next Chapter. In many Flowers the Calyx is deciduous, dropping off the Instant the Flower begins to expand; this is the Case with Epimedium and Papaver.

CHAP. III.

Of the Corolla.

THE COROLLA, is the Termination of the Liber, or inner Bark, continued to, and accompanying the Fructification in this new form of painted Leaves.

Flower-stalks, and sometimes so near to the Flower, as to be mistaken for its Calyx.

В 3

Its Use is the same as that of the Calyx, ferving as an inner Work of Defence, for the Parts it incloses, as the Calyx, which is usually of stronger Texture, does for an outer one.

The Leaves of which the Corolla confifts are called *Petals*; by which Appellation they are conveniently diftinguished from the green Leaves of the Plant with which they might else be confounded*. The Petal is defined by *Linnæus* as a corollaceous Covering to the Flower, meaning that it encloses and protects

* Petal (in the Greek wetalow) fignifies Leaves in general; but there being another Greek Word (φυλλω) nearly of the same Signification, the modern Botanists have borrowed this to express the Leaves of the Flower. The Ancients seem to have had no distinct Term in Use to express this Part of the Fructification. Thus Virgil, in describing his Amellus, which is a species of Aster, the Flower of which has a yellow Middle, and purple Rays, calls it a golden Flower, surrounded with purple Leaves.

Aureus ipfe (Flos) sed in soliis, quæ plurima circum Funduntur, violæ sublucet purpura nigræ.

Georg. IV.

This loofe expression, which is chargeable rather on the Language than the Poet, has missed all its Translators; as is rightly observed by Martin, in his Note on this Passage. May and Addison make the real Leaves of the Plant purple.

For from one Root he spreads a Wood of Boughs, Whose many LEAVES, altho' the Flower be gold, Black Violets dimme purple Color hold. MAY.

The

tects in the manner of a Corolla, or Wreath.

If the Corolla be

MONOPETALOUS, of one Petal; it confifts of two Parts, viz. The Tube, or lower Part, which is usually Tube-shaped; and the Limb, or upper Part, which usually spreads wider. And the Limb again, according to its Figure, is either Campanulate, Bell-shaped, that is, bellying out, and without a Tube; Infundibuliform, Funnel-shaped, that is, of the Figure of a Cone, and standing on a Tube; Hypocrateriform, Salver-shaped, that is plain or flat, and standing on a Tube; Rotato-plane, Wheel-shaped, and flat, without a Tube; or Ringent, gaping, that is, irregular and perso-

The Flower itself is of a golden Hue.
THE LEAVES inclining to a darker Blue.
THE LEAVES shoot thick about the Root, and grow Into a Bush; and shade the Turf below.

DRYDEN applies the same Color to the Boughs.

For from one Root the rifing Stem bestows A Wood of Leaves, and Vi'let purple BOUGHS. The Flower itself is glorious to behold, And shines on Altars like refulgent Gold.

DRYDEN.

Dr. TRAPP applies the golden Color to the stem, and the purple to the Leaves.

For from one Turf a mighty Grove it bears; Its STEM of golden Hue; but in its LEAVES, Which copious round it sprout, the purple Teint Of deep-dyed Violets more glossy shines.

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nated

nated with two Lips. But if the Corolla be POLYPETALOUS, of many Petals; each Petal confifts of Unguis, a Claw, which is the lower Part fastened to the Base; and Lamina, a thin Plate, which is the upper Part, and usually spreading. A polypetalous Corolla is cruciform, cross-shaped, when it consists of four Petals that are equal and spreading; and Papilionaceous, Buttersty-shaped, when it is irregular, consisting of sour Petals, of which the under one resembles the Keel of a Ship, the upper one rises, and the

two fide ones stand single.

There belongs also to the Corolla a Part called the Nectarium, which has been but newly distinguished, having been by former Botanists confounded with the Petals. by Linnaus defined to be the Part which bearsthe Honey, and belonging to the Flower only. This Part affords a wonderful Variety in the Manner of its Appearance. In some Plants it is very large, as in the Narcissus and Aquilegia; in the former of which the Cup, and in the latter the Horns, are Nectaria: In others it is scarce discoverable, even with Glasses. In some Plants it is united with, and makes Part of, the Petals: In others it is detached from them. Its Shape and Situation are also as various. Its Use is

not

not known, unless the Supposition of its fecreting the Honey may be depended upon.

Between the Calyx and Corolla Nature has put no absolute Limits; as is plain from the Daphnis, in which Plant they grow together, and are united in the Margin, like a Leaf of the Buxus; but they may be commonly distinguished by their Position in 1espect of the Stamina, the Petal and Stamina being ranged alternately; whereas the Segments of the Calyx and the Stamina answer to each other. That this is their natural Situation, appears from the complete Flowers in the Classes Tetrandria* and Pentandria +: And the Use of applying this Rule will be found in the Instances of Chenopodium, Urtica, and Parietaria; where it decides, that the fingle Cover in those Genera is a Perianthium, and that it is the Corolla that is wanting. Should we infer, where only one of the two Covers appears, that it is a Corolla, because that is a more principal Part, there would be no certainty from fuch an Inference; as is evident from the Ammania, Isnarda, Peplis, Ruellia and Campanula, in all which the Corolla is often found wanting, but not the Calyx.

^{*} See Part II. Chap. 7. + See Part I. Chap. 8.

That the Calyx, as proceeding from the Cortex of the Plant, is coarfer and thicker than the Corolla, which is produced by the foft, pliant, colored Liber, is obvious to every one. But there are no Limits determinable from any such Circumstances, unless it be from the Color; and even this is not sufficient; for the Perianthium of the Bartsia is blood-coloured; and there are also many Flowers whose Corolla are colored, naked, and subject to lose their Petals when in the State of Flowering, but which afterwards harden and turn Green, and remain on the Plant like a Calyx; as for Instance, the Helleborus and Ornithogalum.

The Euphorbia has deceived many, who have described it as monopetalous, taking the Calyx for the Corolla. But that the Peltæ*, as they are called, upon the Leaves of the Lichen, are really the Petals of the Flower, is proved by some annual Species in India, in which there are white Petals very

distinguishable.

^{*} The Peltæ are the Fructification of the Lichen. They are flat, and are for the most Part fastened to the Edges of the Leaves.

CHAP. IV.

Of the STAMINA.

THE STAMINA are the Male Part I of the Flower. Linnaus defines them as an Entrail of the Plant, designed for the Preparation of the Pollen; of which we shall speak presently.

Each fingle Stamen confifts of two Parts,

I. FILAMENTUM, the Filament or Thread; which ferves to elevate the Anthera, or Summit, and at the same Time connects it with the Flower.

2. ANTHERA, the Summit itself; which contains within it the Pollen, and when come to Maturity discharges the same.

The POLLEN, Meal, contained within the Antheræ, is a fine Dust secreted therein, and deftined for the Impregnation of the Germen; of which Part we shall speak in

the next Chapter.

The Stamina being, as I have faid, the Male Part of the Flower, the Construction and Distribution of the sexual System is principally founded upon, and regulated by it; as will appear in the Explanation of the Syftem.

stem. It is sufficient to observe here, that fuch Flowers as want this Part are called Female; fuch as have it, but want the Female Part described in the next Chapter, Male; fuch as have them both, Hermaphrodite; and fuch as have neither, Neuter.

CHAP. V.

Of the PISTILLUM.

THE PISTILLUM is the Female Part of the Flower: It is defined by Linnæus as an Entrail of the Plant, designed for the Reception of the Pollen. It confifts of three Parts.

1. The GERMEN; which is the Rudiment of the Fruit accompanying the Flower, but not yet arrived at Maturity.

2. The STYLE; which is the Part that ferves to elevate the Stigma from the Germen.

3. The STIGMA; which is the Summit of the Pistillum, and covered with a Mois-

ture for the breaking of the Pollen.

It has been faid in the last Chapter, that the Pollen was destined to the Impregnation of the Germen: This is performed in the fol-

following Manner. The Anthera, which at the first opening of the Flower are whole, burst open soon after, and discharge the Pollen; which dispersing itself about the Flower, Part of it lodges on the Surface of the Stigma, where it is detained by the Moisture with which that Part is covered; and each fingle Grain or Atom of the Pollen bursting and diffolving in this Liquor, as it has been observed to do by the Microscope, is supposed to discharge something that impregnates the Germen below: What the Substance is that is so discharged, and whether it actually paffes through the Style into the Germen, feems yet undetermined, it being difficult to observe such minute Parts: but whatever be the Operation by which Nature produces the Effect in Question, the Cause, as far as it has been here explained, is scarce disputable; and accordingly we see, that after this Impregnation, when the Parts of the Flower that have done their Office are fallen away, the Germen swells to a Fruit big with Seeds, by which the Species is propagated. The Pistillum being, as I have faid, the Female Part of the Flower, is of great Confequence in the fexual System, as well as the Male Part; as will appear when the System comes to be explained.

CHAP. VI.

Of the PERICARPIUM.

THE PERICARPIUM, Seed-vessel, is the Germen described in the last Chapter grown to Maturity. It is defined by Linnaus as an Entrail of the Plant big with Seeds, which it discharges when ripe.

It is diffinguished, according to the Circumstances that attend it, by the following

Appellations.

CAPSULA, a Capfule, is a hollow Pericarpium, which cleaves or parts in fome determinate Manner. The Inclosure of the Capfule, which furrounds and covers the Fruit externally, is called a Valvule: the Partitions, which divide the Capfule into fundry Compartments or Cells, Disseptiments; the Substance which passes through the Capfule, and connects the several Partitions and Seeds, Columella; and the Cells, or hollow Compartments of the Capfule in which the Seeds are lodged, Loculaments.

SILIQUA, a Pod, is a Pericarpium of two Valves, wherein the Seeds are fastened along both the Sutures or Joinings of the

Valves.

LEGUMEN, a Pod also, is a Pericarpium of two Valves, wherein the Seeds are

fastened along one Suture only.

a Pericarpium of a fingle Valve, which opens on one fide lengthways, and has not the Seeds fastened to it.

DUPRA, is a fleshy or pulpy Pericarpium

without Valve, containing a Stone.

POMUM, is a flethy or pulpy Pericarpium

without Valve, containing a Capfule.

BACCA, a Berry, is a fleshy or pulpy Pericarpium without Valve, the Seeds within which have no other covering.

STROBILUS, is a Pericarpium formed

of an Amentum*.

CHAP. VII.

Of the SEEDS.

THE SEED, according to the Definition of Linnæus, is a deciduous Part of the Vegetable, the Rudiment of a new one, quickened for Vegetation by the sprinkling of the Pollen. Its Distinctions are,

* See Chap. 2.

A SEED,

A SEED, properly so called, which is a Rudiment of a new Vegetable, furnished with Sap, and covered with a bladdery Coat or Tunic. It confifts of, 1. Gorculum, the first Principle of the new Plant within the Seed. 2. Plumula, a scaly Part of the Corculum; which ascends. 3. Rostellum, a plain Part of the Corculum; which descends. 4. Cotyledon, a fide Lobe of the Seed, of a porous Substance, and perishable. 5. Hilum, an external Mark or Scar onthe Seed, where it was fastened within the Fruit. 6. Arillus, the proper exterior Coat or Tunic of the Seed; which comes off of itself. 7. Coronula, the little Crown, of a Seed; which is either Calyculus, the Calyx of a Floret, adhering to the Seed, and affifting it to fly; or Pappus, a Down, which is a feathery or hairy Crown answering the same end, and connected with the Seed by Stipes, a Trunk, which here fignifies the Thread on which the Down is raifed and supported. S. Ala, Wing, a Membrane affixed to the feed, and which by its flying helps to disperse it.

Nux, a Nut; which is a Seed inclosed with an offeous Epidermis, a bony or hard outer

Skin, commonly called the Shell.

PROPAGO; which is the Seed of a Moss, first discovered by Linnæus, who peeled off

the

the Bark, and detected it in the Year 1750. These Seeds have neither Tunic nor Cotyledon, but consist only of the Plumula of a naked Corculum, where the Rostellum is inserted into the Calyx of the Plant.

CHAP. VIII.

Of the RECEPTACLE.

HE RECEPTACLE, is the Base which connects the other fix Parts of Fructification. Its various Appellations are as follow.

A PROPER RECEPTACLE, is that which belongs only to the Parts of a fingle Fructification: And this is called a Receptacle of the Fructification, when it is common to both Flower and Fruit; a Receptacle of the Flower, when it is a Base to which the Parts of the Flower only are fastened without the Germen; a Receptacle of the Fruit, when it is a Base for the Fruit only, remote from the Receptacle of the Flower; a Receptacle of the Seeds, when it is a Base that fastens the Seeds within the Pericarpium.

A COM-

A COMMON RECEPTACLE, is that which connects many Florets in fuch a manner, as that the taking away any of them would cause an Irregularity. Palea, a Chaff, is a thin Substance, springing from the Re-

ceptacle to part the Florets.

UMBELLA, an Umbel, is a Receptacle, which, from a common Centre, runs out into Thread-shaped Foot-stalks of proportionate Lengths. It is called a simple Umbel, when it has no Subdivisions; a compound Umbel, when each Foot-stalk is terminated by an Umbellula or little Umbel; and in this Case, the Umbel that bears the Umbellula on its Foot-stalks, is called an universal Umbel; and the Umbellula which proceeds from the universal Umbel, a partial Umbel.

CYMA, a Cyme, is a Receptacle that runs into long fastigiate Peduncles *, proceeding from the same universal Centre, but with

irregular partial ones.

SPADIX, is the Receptacle of a Palm†,

* Peduncles, Flower-stalks, are called Fastigiate, when their Lengths are so proportioned, that the Flowers

which they support form an even Surface.

† This is the proper Sense of the Term, as employed by the Ancients: But Spadix is now used in a more general Sense, viz. to express all Flower-stalks that come out of a Spatha; see the Note on this Subject in Chap.

2. This Definition therefore appears to be too strict.

produced within a Spatha, or Sheath, on the Branches that bear Fruit.

CHAP. IX.

Of the distinct Characters of the Parts of FRUCTIFICATION.

THE Parts of Fructification, with their Subdivisions, having been explained feparately in the preceding Chapters, we shall here give a View of them altogether, with the proper distinguishing Character assigned to each by Linnaus, beginning with the Vegetable itself.

The Essence of the Vegetable consists in its Fructification: The Effence of the Fructification confifts in the Flower and Fruit: The Essence of the Flower consists in the Anthera and Stigma: The Essence of the Fruit confifts in the Seeds. We come now to THE

PARTS.

POLLEN, is the Dust of Vegetables, defigned to burst in a Liquor appropriated to that Purpose; and discharge therein, by its elastic Force, a Substance not distinguishable by the naked Eye.

A SEED,

A SEED, is a deciduous Part of a Plant, fraught with the Rudiment of a new Plant, and quickened by the Pollen.

ANTHERA, is a Vessel that produces

and discharges the Pollen.

PERICARPIUM, is a Veffel that pro-

duces and discharges the Seeds.

FILAMENTUM, is the Foot that supports the Anthera, and fastens it to the Ve-

getable.

GERMEN, is the Rudiment of the Pericarpium or of the Semen, not yet arrived at Maturity; its Existence is chiefly at the Time when the Anthera is discharging its Pollen.

STIGMA, is the moistened Summit of the Germen.

STYLUS, is the Foot of the Stigma, that connects it with the Germen.

COROLLA and CALYX, are the Teguments or Covers of the Stamina and Pistillum; the Calyx arising from the cortical Epidermis, or outer Bark, and the Corolla, from the Liber, or inner Bark.

RECEPTACULUM, is that Part which

connects the Parts before mentioned.

From these Characters the following Principles may be deduced.

1. That

1. That every Vegetable is furnished with Flower and Fruit; there being no Species where these are wanting.

2. That there is no Fruetification without

Anthera, Stigma, and Seed.

3. That the Anther and Stigma constitute a Flower, whether the Covers are present or wanting.

4. That the Seed constitutes a Fruit, whe-

ther there be a Pericarpium or not.

In respect to the Seed; its Essence consists in the Corculum, which is fastened to the Cotyledon, and involved therein, and closely

covered with its proper Tunic.

The Effence of the Corculum confifts in the Plumula; which is the vital Speck of the Plant itself, extremely small in its Dimensions, but increasing like a Bud to Infinity. The Rostellum however must be included, being the Base of the Plumula, which descends and strikes Root, being the Part originally contiguous to the Mother Plant.

That the *Propagines*, or Seeds of Mosses, consist only of the *Plumula* and *Rostellum*,

has been already shewn *.

* See Chap. 7.

CHAP. X.

Of the most natural Structure of the Parts of Fructification.

IN confidering the Sructure of the Parts of Fructification, the principal Objects to be attended to are, 1. The Number of each Part. 2. Its Figure. 3. Its Proportion; by which is to be understood its Height in respect to the rest; and, 4. Its Situation; which will include also its Insertion and Connections. As to any other Differences, such as a Difference in the Size, Color, Smell, or Taste, it is not safe to allow any Weightto them, as they might lead us to make Distinctions, not justifiable by the true Principles of the Science.

As the Number, Figure, Proportion, and Situation of the Parts are variable, we shall consider; 1. THE MOST NATURAL STRUCTURE, or that which most frequently occurs; and this we shall make the Subject of the present Chapter. 2. THE DIFFERENCES in Structure, arising from the Variation of the Parts in different Plants; which will take up a few of the succeeding Chapters. And, 3. THE SINGULAR STRUCTURES, or such as are observed in a few Genera only; for which we shall allot a Chapter by itself.

The

The MOSTNATURAL STRUCTURE of the Parts, in respect to NUMBER, is, To have the Calyx divided into as many Segments as the Corolla; The Filaments equal in Number to the Segments of the Corolla and Calyx; A single Anthera on each Filament; The Divisions of the Pistillum equal in Number to the Cells of the Pericarpium, or the Receptacles of the Seeds; the most common Number, five; (whence the Extent of the Classes Pentandria* and Syngenesia †,) and the Corolla and Calyx also quinquisid, cut into sive Segments.

In respect to FIGURE, To have the Calyx less spreading than the Corolla; The Corolla widening gradually; The Stamina and Pistillum upright and tapering; The Pericarpium big with Seeds, Swelling and extending after the rest of the Parts (the

Calyx excepted) are fallen off.

In respect to PROPORTION, To have the Calyx less than the Corolla; The Pistillum of equal Length with the Stamina in an upright Flower, but longer in an inverted one; if the Flower slope downward, the Stamina and Pistillum inclining towards the under Side; but if it slope upwards, placed close under the upper Side.

^{*} See Part II. Chap. 8. + See Part II. Chap. 22.

In respect to SITUATION, To have the Perianthium furrounding the Receptacle; The Corolla placed on the Receptacle, and alternate with the Perianthium; The Filaments placed within the Corolla, but correfponding with the Perianthium; The Antheræ feated on the Tops of the Filaments; The Germen possessing the Centre of the Receptacle; The Style standing on the Top of the Germen; The Stigma feated on the Top of the Style. When the Stigma and Style are fallen, the Germen grows to a Pericarpium, fupported by the Calyx, and including the Seeds which are affixed to the Receptacle of the Fruit. The Receptacle of the Flower is generally under the Pericarpium, being not so often found to grow either round it or over it.

CHAP. XI.

Of the different Structures of the CALYX.

AVING shewn the most natural Structure of the Parts of the Fructification in the last Chapter, we come now to their DIFFERENCES, or Variations, (which are the Foundation of the Genera), and their Cha-

Characters; and of these we shall treat in

their Order beginning with the Calyx.

The Variations of the Calyx, in respect to NUMBER, will take in the Terms also that respect its Composition, Parts, and Segments.

In respect to Number, it is either single, as in Primula, and most Flowers; double, as in Malva, Hibiscus, and Bixa; or wanting, as in Tulipa, Fritillaria, and many of

the liliaceous Flowers.

In respect to Composition, it is either Imbricate, that is, composed of various Scales lying over each other, as in Hieracium, Sonchus, and Camellia; Squarrose, that is, composed of Scales divaricated on all Sides, and spreading widely open, as in Carduus, Onopordum, and Conyza; Auctus, augmented; that is, having a Series of distinct Leaves, shorter than its own, that surround its Base externally, as in Coreopsis, Bidens, Crepis, and Dianthus; or Multistorus, many slowered, that is, common to many Florets, as in Scabiosa, and in the Plants of the Class Syngenesia*.

In respect to its Parts, it is either Monophyllous, of one Leaf, as in Datura and Primula; Diphyllous, of two, as in Fumaria, and

^{*} See Part II. Chap. 22.

Fumaria bulbosa; Triphyllous, of three, as in Tradescantia; Tetraphyllous, of four, as in Sagina, Epimedium, and in the Plants of the Class Tetradynamia; Pentaphyllous, of sive, as in Cistus, Adonis, and Cerbera; Hexaphyllous, of six, as in Berberis; or Decaphyllous,

of ten, as in Hibiscus.

In refpect to its Segments (which chiefly concern the monophyllous Calyx) it is either Integer, whole, as in Genipa; Bifid, divided in two Segments, as in Utricularia; Trifid, in three, as in Alifina, and Cliffortia; Quadrifid, in four, as in Rhinanthus; Quinquifid, in five, as in Nicotiana; Sexfid, in fix, as in Pavia; Octofid, in eight, as in Tormentilla; Decemfid, in ten, as in Potentilla and Fragaria; or Duodecemfid, in twelve, as in Lythrum.

The Variations of the Calyx in respect to FIGURE, will also include the Terms respecting its Equality, Margin, and Apex, or

Top.

In respect to Figure, it is either Globose, Globe-shaped, as in Cucubalus; Clavate, Club-shaped, as in Silene; Reslex, bent back, as in Asclepias; or Erect, upright, as in Primula and Nicotiana.

In respect to Equality, it is either equal as in Lychnis; unequal, as in Helianthemum; or + See Part II. Chap. 18.

with

with the Segments alternately shorter, as in Tarmentilla and Potentilla.

In respect to its Margin, it is either Integerrimus, very entire, as in most Plants; Serrate, sawed, as in some Species of Hypericum; or Ciliate, fringed with Hairs like an Eye-lash, as in some Species of Centaurea.

In respect to its Apex or Top, it is either Acute, sharp, as in Primula and Androsace; Acuminate, pointed, as in Hyoscyamus; Obtuse, blunt, as in Nymphea and Garcinia; or with one of its Indents lopped off, as in Verbena.

In respect to PROPORTION, it is either longer than the Corolla, as in Agrostema, Sagina, and some Species of Antirrhinum; equal to it, as in some Species of Cerastium; or shorter, as in Silene.

In respect to SITUATION, it is either a Calyx of the Flower, as in Linna and Morina; of the Fruit, as in Linna and Marina*, or of the Fruëtification, as in Paonia.

The DURATION of the Calyx may also be considered. In respect to which it is either Caducous, falling off at the first Opening of the Flower, as in Papaver and Epimedium; Deciduous with the Corolla, as in Berberis,

* The Linnæa and Morina have each of them two Calyces, one of the Flower, the other of the Fruit; which is the Reason of their being given as Instances of both Cases.

and in the Plants of the Class Tetradynamia †; or Persisting, till the Fruit is come to Maturity, as in the Plants of the Class Didynamia ‡.

Variations of an INVOLUCRUM.

The preceding Varieties of the Calyx chiefly respect a Perianthium. An Involucrum is either Monophyllous, as in Bupleurum; Diphyllous, as in Euphorbia; Triphyllous, as in Butomus and Alisma; Tetraphyllous, as in Cornus; Pentaphyllous, as in Daucus; or Hexaphyllous, as in Hæmanthus.

Variations of a SPATHA.

A Spatha is either Monophyllous, as in Narcissus; Diphyllous, as in Stratiotes; or Imbricate; as in Musa.

CHAP. XII.

Of the different Structures of the COROLLA.

THE Variations of the Corolla in refpect to NUMBER concern either Petals, or Laciniæ, Segments: The Varia-

† See Part II. Chap. 18. ‡ See Part II. Chap. 17.

tions of the Nectarium shall be given sepa-

The Corolla, in respect to its Petals, is either Monopetalous, or consisting of one Petal, as in Convolvulus and Primula; Dipetalous, of two, as in Circæa and Commelina; Tripetalous, of three, as in Alisma and Sagittaria; Tetrapetalous, of four, as in the Class Tetradynamia *; Pentapetalous, of sive, as in umbelliferous Plants †; Hexapetalous, of six, as in Tulipa, Lilium, Podophyllum; Enneapetalous, of nine; as in Thea, Magnolia, and Liriodendron; or Polypetalous, of many, as in Nymphæa.

In respect to its Laciniæ (which concern rather the Monopetalous than the Polypetalous, being but rarely observed in the latter) it has either two, as in Alsine and Circæa; three, as in Holosteum and Hypecoum; four,

as in Lychnis; or five, as in Reseda.

The Variations of the Corolla, in respect to FIGURE, will include what also concerns its Equality, and its Margin.

In respect to Figure, it is either Undulate, waved, as in Gloriosa; Plicate, folded, as in

* See Part II. Chap. 18.

⁺ The umbelliferous Plants are in the Order Digynia of the Class of Pentandria; see Part II. Chap. 8.

Convolvulus; Revolute, rolled back, as in Afparagus and Medeola; or Tort, twisted, as in Nerium, Asclepias, and Vinca: Its more confiderable Variations, in respect to Figure, have been already shewn in Chap. 3.

In respect to Equality, it is either equal, as in Primula; unequal, as in Butomus; regular, as in Aquilegia; or irregular, as in

Aconitum and Lamium.

In respect to its Margin, it is either Crenate, notched, as in Linum; Serrate, sawed, as in Tilia and Alisma; Ciliate, fringed, as in Ruta, Menyanthes, and Tropæolum; Denticulate between the Segments, that is, having a Denticulus, or little fag, at the Bottom of the Divisions, as in Samolus and Sideroxyhum; or with a hairy Surface, as in Menyanthes, and Lasianthus a Species of Hypericum.

In respect to PROPORTION it may be very long, as in Catesbæa, Siphonanthus, Brunsfelsia and Craniolaria; or very short,

as in Sagina, Centunculus and Ribes.

In respect to SITUATION, the Base of the Corolla is usually close to the Perianthium, if there be one: It is indeed separated from it by the Germen, in Adoxa, Sanguisorba and Mirabilis, but these Instances are very rare.

In

In respect to DURATION, it is either Persisting, lasting till the Fruit is ripe, as in Nymphæa; Caducous, dropping as soon as the Flower is blown, as in Actæa and Thalictrum; Deciduous, dropping off with the Flower, which is the most common; or Marcescent, withering, but not falling, as in Campanula, Orchis, Cucumis, Cucurbita and Bryonia.

Variations of the NECTARIUM.

It has been already faid, Chap. 3. that the Nectarium, by the former Botanists, had been confounded with the Petals; but though it commonly attends upon, and makes Part of the Corolla, it is often found dictinct from it, as in the Instances of Aconitum, Aquilegia, Helleborus, Isopyrum, Nigella, Garidella, Epimedium, Parnassia, Theobroma, Cherleria and Sauvagesia; which sufficiently proves that it should be distinguished from the Petals. The Nectarium affords very singular Varieties, especially if it grows distinct from the Petals. It admits of the following principal Distinctions.

CALCARIATE Nectaria, such as refemble a Calcar, or Spur; and these are either in Monopetalous Corolla, as in Antirrbinum, Valeriana, Pinguicula and Utricu-

laria;

laria; or in Polypetalous, as in Orchis, Delphinium, Viola, Impatiens, and Fumaria.

Nectaria that lie within the SUBSTANCE of the Petals, as in Fritillaria, Lilium, Swertia, Iris, Hermannia, Uvularia, Hydrophyllum, Myosurus, Ranunculus, Bromelia, Erythurium, Parkin Landina Companya de la libraria de

thronium, Berberis and Valisneria.

Nectaria that CROWN the Corolla, as in Passiflora, Narcissus, Pancratium, Olax, Lychnis Silene, Coronaria, Stapelia, Asclepias, Cynanchum, Nepenthes, Cherleria, Clusia, Hamamelis and Diosma.

Nectaria of SINGULAR Construction, as in Reseda, Cardiospermum, Amomum, Costus, Curcuma, Grewia, Urtica, Andrachne, Epi-

dendrum, Helieteres and Salix.

CALYCINE Nectaria, such as are found upon the Calyx, as in Tropæolum, Monotropa,

Biscutella and Malpighia.

STAMINEOUS Nectaria, such as attend the Stamina; and these are either upon the Anthera, as in Adenanthera; or upon the Filaments, as in Laurus, Dictamnus, Zygophyllum, Commelina, Mirabilis, Plumbago, Campanula, and Roella.

PISTILLACEOUS Nectaria, such as accompany the Pistllum: These are upon the Germen, as in Hyacinthus, Iris, Butomus,

Chieranthus, Hesperis, &c.

RE-

RECEPTACUL ACEOUS Nectaria, such as join to the Receptacle, as in Lathræa, Helxine, Collinsonia, Sedum, Cotyledon, Sempervivum, &c. Mercurialis, Kiggellaria, Clutia, Phyllanthus, Melianthus and Diosma.

CHAP. XIII.

Of the different Structures of the STAMINA.

THE Stamina, confishing each of a Filament and an Anthera (see Chap. 4.) we shall speak first of the Variations of the Filaments.

As the Terms respecting the NUMBER of the Stamina will be explained in the Chapters that treat of the sexual System, we shall omit here what concerns the Number of the Filaments themselves, to avoid Repetition; but they are sometimes found to have Lacinia, Segments; and these are either two, as in Salvia; three, as in Fumaria; or nine, as in the Class Diadelphia*.

The FIGURE of the Filaments is either Capillary, like Hairs, as in Plantago; Plane,

^{*} See Part II. Chap. 20.

flat, as in Ornithogalum; Cunciform, Wedgeshaped, as in Thalistrum; Spiral, Skrewshaped, as in Hirtella; Subulate, Awl-shaped, as in Tulipa; Emarginate, nicked or
notched, as in Porrum; Reflex, bent back, as
in Gloriosa; or Hirsute, hairy, as in Tradescantia and Anthericum.

The PROPORTION of the Filaments is either unequal, as in Daphne, Lychnis, and Saxifraga; irregular, as in Lonicera, and the Class Didynamia*: very long, as in Trichostema, Plantago, and Hirtella; or very short

as in Triglochin.

The SITUATION of the Filaments, is either opposite to the Leaves, or Segments of the Calyx, as in Urtica; or alternate, with them, as in Elæagnus. In Monopetalous Flowers they are inserted into the Corolla, but scarce ever in Polypetalous: In the Class Icosandria † they are always inserted in the Calyx, as they are also in Epilobium, Oenothera, Justica, Ludwigia, Oldenlandia, Isnarda, Ammania, Peplis, Lythrum, Glaux, and Rhexia; and in some Apetalous‡ Flowers, as in Elæagnus; but it is more common for them to be inserted into the Receptacle, like the Calyx and Corolla.

^{*} See Part II. Chap. 17. + See Part II. Chap. 15. t Without Petals.

Variations of the ANTHERÆ.

The NUMBER of the Antheræ is either a fingle one to each Filament, as in the Generality of Plants; one common to three, as in Cucurbita; one to five, as in the whole Class Syngenesia*; two to each Filament, as in Mercurialis; three to each, as in Fumaria; five to three Filaments, as in Bryonia; or five to each, as in Theobroma.

In some Plants that have single Antheræ to the Filaments, some of the Antheræ are wanting; thus one is wanting in Cleonia and Martynia; two in Pinguicula and Verbena; three in Gratiola, and in some Bignonias and Geraniums; four in Curcuma; and five in

Pentapetes, and some Geraniums.

The Number of Cells that contain the Pollen, is either one as in Mercurialis; two, as in Helleborus; three, as in Orchis; or four, as in Fritillaria.

The FIGURE of the Antheræ is either Oblong, as in Lilium; Globose, as in Mercurialis; Sagittate, Arrow-shaped, as in Crocus; Angulate, cornered, as in Tulipa; or Cornute, horned, as in Hamamelis, Erica, Vaccinium, and Pyrola.

* See Part II. Chap. 22.

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They

They BURST either on the Side, as in Leucoium, and most Flowers; on the Apex, as in Galanthus and Kiggellaria; or from the Apex, to the Base through the whole Length, as in Epimedium and Leontice.

They are FASTENED either by their Base, as in most Plants; their Tops, as in Colchicum; their Sides, as in Canna; or grow

to the Nectarium, as in Costus.

Their SITUATION is either on the Tops of the Filaments, as in most Plants; on the Sides of the Filaments, as in Paris and Afarum; on the Pistillum, as in Aristolochia; or

on the Receptacle, as in Arum.

The FIGURE of the Particles of the Pollen appears by Glasses to be either Globus echinatus, a prickly Ball, as in Helianthus; Perforate, as in Geranium; Double, as in Symphytum; Rotato-dentate, Wheel-shaped, and indented, as in Malva; Angulate, cornered, as in Viola: Reniform, Kidney-shaped, as in Narcissus; or Folia Convoluta, a Leaf rolled up, as in Borago.

CHAP. XIV.

Of the different Structures of the PISTILLUM.

THE Pistillum consists of three Parts, Germen, Stylus, and Stigma. Of these the Germen being no other than the Rudiment of the Pericarpium, its Variations will be considered under that Head in the next Chapter: nor need we speak here of the Number of the Styles, as that will be treated of in the Explanation of the sexual System*; but as the Style is often divided, we must consider its Laciniæ.

STYLE—The Style, in respect to its LACINIÆ, is either Bifid, as in Persicaria, and Cornutia; Trifid, as in Clethra and Frankenia; Quadrifid, as in Rhamnus; Quinquefid, as in Geranium; or Dichotomous, halved, and each Lacinia halved again, as in Cordia.

The FIGURE of the Style is either Cy-lindric, like a rolling Stone, as in Monotropa; Angulate, cornered, as in Canna; Subulate, Awl-shaped, as in Geranium; Capillary, like

^{*} See Part II. Chap. 3. in which the Titles of the Orders, which are governed chiefly by the Number of Styles, are explained.

Hairs, as in Ceratocarpus; or thicker towards

the Top, as in Leucoium.

In respect to LENGTH, it is either very long as in Tamarindus, Cassia, Campanula, Scorzonera and Zea; very short, as in Papaver; or of the Length of the Stamina, as in Nicotiana, and most Flowers.

In respect to THICKNESS, it is either thicker than the Stamina, as in Leucoium; thinner, as in Ceratocarpus; or of equal Thick-

ness with them, as in Lamium,

Its SITUATION is either on the Apex of the Germen, as is too common to need Example; both above and below the Germen, as in Capparis and Euphorbia (unless the lower Part in these be considered as the Extension of the Receptacle; or on the Side of the Germen, as in Rosa, Rubus, and the rest of the Plants of the Order Polygynia, in the Class Icosandria*, and also in Hirtella and Suriana.

As to its DURATION, it is sometimes, Persisting, as in the Class Tetradynamia †.

STIGMA—The NUMBER of the Stigmata is either a fingle one, as in most Flowers; two, as in Syringa; three, as in Campanula; four, as in Epilobium and Parnassia; or five, as in Pyrola.

^{*} See Part II. Chap. 15. + See Part II. Chap. 18. The

The LACINIÆ of the Stigma are either Convolute, rolled together, as in Crocus; Capillary, as in Rumex; Revolute, rolled back, as in Dianthus, Campanula, and in the Class Syngenesia*; or bent to the Left, as in Silene: And in respect to their Number, the Stigma may be Sexpartite, divided into six Parts, as in Asarum; or Multisid, with many

Divisions, as in Turnera.

The FIGURE of the Stigma is either Capitate, headed, as in Tribulus, Hugonia, Vinca, Ipomæa, and Clusia; Globose, Globe-shaped, as in Primula, Hottonia, Linnæa and Limosella; Ovate, Egg-shaped, as in Genipa; Obtuse, blunt, as in Andromeda; Truncate, lopped, as in Maranta; pressed down obliquely, as in Actaa and Daphne; Emarginate, notched, as in Melica; Orbiculate, rounded, as in Lythrum; Peltate, like a Pelta or little Shield, as in Sarracena, Nymphæa, Clusia, and Papaver; Coroniform, Crown-shaped, as in Pyrola; Cruciform, Crossshaped, as in Penæa; Uncinate, hooked, as in Viola and Lantana; Canaliculate, grooved, or channelled, as in Colchicum; Concave, hollow, as in Viola; Angulate, cornered, as in Muntingia; Striate, streaked, as in Papaver; Plumose, feathery, as in Rheum, Triglochin,

* See Part II. Chap. 22.

Tamarix and in Graffes; or Pubescent, downy,

as in Cucubalus and Lathyrus.

In respect to LENGTH, it may be Filiform, Thread-like, as in Zea; or as long as the Style, as in Genipa.

In respect to THICKNESS, it may be Foliaceous, resembling a thin Leaf, as in Iris.

In respect to DURATION, it is either Marcescent, withering, as in most Plants; or Persisting, as in Sarracena, Hydrangæa, Nymphæa and Papaver.

CHAP. XV.

Of the different Structures of the PERICAR-PIUM.

THE Variations of the Pericarpium itself, in respect to NUMBER, arise properly from the Number of its Capsules, that is, the Number of Parts into which the Fruit is externally divided, the internal Divisions respecting the Loculaments.

In respect to external Division, the Pericarpium is either absent, as in the Order Gymnospermia of the Class Didynamia*;

^{*} See Part II. Chap. 18.

Unicapfular, consisting of one Capfule, as in Lychnis; Bicapfular, of two, as in Pæonia and Asclepias; Tricapfular, of three, as in Veratrum and Delphinium; Quadricapsular, of four, as in Rhodiola; Quinquecapsular, of sive, as in Aquilegia; or Multicapsular, of many, as in Caltha, Trollius and Helleborus.

The Fruit in respect to the Loculaments, or internal Divisions of the Pericarpium, is either Unilocular, of one Cell, as in Trientalis and Primula; Bilocular, of two, as in Hyofcyamus, Sinapis, and Nicotiana; Trilocular, of three, as in Lilium; Quadrilocular, of four, as in Euonymus; Quinquelocular, of five, as in Pyrola; Sexlocular, of fix, as in Afarum and Aristolochia; Octolocular, of eight, as in the Species of Linum, called Radiola; Decembocular, of ten, as in Linum; or Multilocular, of many, as in Nymphæa.

The Pericarpium, in respect to the Number of its Valvules, or outer Inclosures, is either Bivalve, of two Valves, as in Chelidonium and Brassica; Trivalve, of three, as in Viola, Polemonium and Helianthemum; Quadrivalve, of four, as in Ludwigia and Oenothera; or Quinquevalve, of five, as in Hot-

tonia.

The

The Diffepiments are either parallel to the Valvules, as in Lunaria and Draba; or placed the contrary Way, as in Biscutella

and Thlaspi.

The most considerable Differences in the FIGURE of the Pericarpium, with the Names affigned for each, have been explained in Chap. 6. It varies farther, in being Turbinate, narrowing like a Child's Top, as in Pyrus; inflate, puffed, as in Cardiospermum and Staphylea; Membranaceous, composed of thin Membranes, as in Ulmus; Triquetrous, Tetragonous, Pentagonous, of three, four, or five Sides, as in Averrhoa, Zygophyllum, &c. or Articulate, jointed, as in Ornithopus, Hedysarum and Raphnus

The OPENING of the Pericarpium for discharging the seeds when the Fruit is ripe, is either at the Apex, which may be Quadridentate, split into four Segments, as in Dianthus; Quinquedentate, into five, as in Alsine; or Decemdentate, into ten, as in Cerastium; opening at the Base Trifariam, into three Parts, as in Triglochin, and Campanula; or Quinquefarium, into five Parts as in Ledum; at the Angles, Corners, longitudinally, lengthways, as in Oxalis and Orchis; through a Pore, Hole, as in Campanula; or borizontally across across the Middle, as in Anagallis, Plantago, Amaranthus, Portulaca and Hyoscyamus.

All Fruit that is articulate, jointed, opens at every one of the Joints, each of which is

Monospermous, single seeded.

The CONFINEMENT of the Seeds is fometimes Elastic, bursting like a Spring, as in Oxalis, Elaterium, Momordica, Impatiens, Cardamine, Phyllanthus, Euphorbia, Justicia, Ruellia, Dictamnus, Hura, Ricinus, Tragia, Jatropha, Croton, Clusia and Acalypha.

The SITUATION of the Pericarpium is at the Receptacle of the Flower, either placed under it, as in Vaccinium and Epilobium; over it, as in Arbutus and Tulipa; or both above and below it, as in Saxifraga and Lobelia,

CHAP. XVI.

Of the different Structures of the SEEDs.

In respect to the NUMBER of Seeds contained within the Fruit, Plants are either Monospermous, having one Seed, as in Polygonum and Collinsonia; Dispermous, two, as in Daucus; Trispermous, three, as in Euphorbia; or Tetraspermous, four, as in Tournefortia.

In

In respect to the Number of Loculaments of the Seed itself, it has but one in most Plants; but is Bilocular, with two Cells, in Cornus, Xanthium, Locusta, Valeriana, and Cordia.

In respect to its FIGURE, it is either Cinct, girt, as in Arenaria and Bryonia; Cordiform, Heart-shaped, as in Medeola; Renisorm, Kidney-shaped, as in Anacardium and Phaseolus; Ovate*, Egg-shaped, as in Polygala and Isatis; or Echinate, prickly like an Echinus or Hedge-hog, as in Lappula, a Species of Myosotis.

In respect to their SUBSTANCE, they are Offeous, bony, as in Corylus, Lithospermum, and Nuts of all Kinds; or Callous,

tough; as in Citrus.

The CORONULA, little Crown, that attends many Seeds, is either Calyculus, a small Calyx formed of the Perianthium of the Flower, as in Scabiosa, Knautia, Ageratum, and Arctotis; or Pappus, a Down; and this Pappus is either Capillary, like a Hair, that is simple and filisorm; Thread-shaped, as in

Hiera-

^{*} The Term Ovate is wed to express an elliptical Figure when it is broader at one End than the other; and the Term Oval for the same Figure, when the Ends are alike.

Hieracium and Sonchus; Plumose, seathery, that is, shaggy and compound, as in Crepis, Scorzonera, and Tragopogon; Paleaceous, chaffy, as in Bidens, Silphium, Tagetes, and Coreopsis; or wanting, as in Tanacetum.

The Seed has an ARILLUS †, in Coffea, Jasminum, Cynoglossum, Cucumis, Dictamnus,

Diofma, Celastrus, and Euonymus.

The Seeds in respect to SIZE may be very small, as in Campanula, Lobelia, Trachelium, and Ammania; or very large, as in Coccus.

In respect to SITUATION, they are either Nidulantia, nesting, that is dispersed about the Pulp, as in Nymphæa; fastened to the Suture, as in Plants that are siliquose, podded; fastened to the Columella, as in Malva; or placed on Receptacles, as in Nicotiana and Datura.

The HILUM of the Seed is evident in Cardiosperum and Staphylaa.

The CORCULUM is close to the Hilum.

+ See Chap. 7.

GHAP.

CHAP. XVII.

Of the different Structures of the RECEP-

IT is in the Class Syngenesia*, which contains the compound Flowers, that the Varieties of the Receptacle are principally to be considered.

In respect to its FIGURE, it is either Plane, flat, as in Achillea; Convex, rounding, as in Matricaria; or Conic, shaped like a Cone, as in Anthemis and Melampodium.

In respect to its SURFACE, it is either Naked, as in Matricaria; Punctate, dotted, as in Tragopogon; Villose, shaggy; as in Andryala; Setose, bristly, as in Centaurea; or Paleaceous, chaffy, as in Hypocharis and Anthemis.

In some simple Flowers the Fruit has separate Receptacles, as in Magnolia, Uvaria,

and Michelia.

* See Part II. Chap. 22.

CHAP.

CHAP. XVIII.

Of the SINGULARITIES in the Structure of the Parts of FRUCTIFICATION.

BY a fingular Structure of the Parts of Fructification, is to be understood such a one as is observed but in very few Genera; it is directly opposed to the natural structure explained in Chap. 10. For Instances of this we may mention the Arum, whose Stamina are within the Pistilla; the Adoxa, whose Germen separates the Corolla from the Calyx; the Salvia, whose Filaments are articulate, jointed; the Eriocaulon, whose Stamina are placed on the Germen, and whose Corolla and Calyx are below the Germen; and the Magnolia, the Receptacle of whose Fruit is capitate, headed, the Seeds, which are like Berries, hanging by a Thread out of the Capfule; but to take the Parts in their Order.

The CALYX is usually less colored than the COROLLA; but in the American Bartsia the Perianthium is bloody; in the herbaceous Cornus the Petals are black, but the Involucrum white; and in the American

Cornus

Cornus the Involucrum is red, and Cordate, Heart-shaped. In Astrantia the Involucrum is colored; and in Palms the Spathæ are bloody; where the Corolla is wanting, the Perianthium is wont to be more colored especially when the Flowers are blowing, as in Ornithogalum, Persicaria, and Polygonum; where either the Calyx or the Corolla is found to be less colored, the Leaves often take a Color, as in Amaranthus tricolor.

In most Plants the STAMINA and PE-TALS are inferted into the Receptacle, in the Bottom of the Flower; but the Plants of the Class Icosandria* have a monophyllous Calyx, the inner Side of which is girt with a Line, to which the Stamina and Petals are fastened; and the Calyx is also obferved to support the Flowers in some other Plants, as in Lythrum, Epilobium, Oenothera, Ammania, Isnarda, Peplis, and Elæagnus. In fome Plants the Receptacle is lined on all Sides with the Perianthium, and the Corolla adheres to the Perianthium as though it were glued to it; this is found in the Cucurbitaceous + Plants, fuch as Cucurbita, Pafsistora, Fevillaa, Momordica, Trichosanthes,

^{*} See Part II. Chap. 15.

† So called from their Affinity to the Cucurbita. Cu-

Cucumis, Bryonia, Sicyos, Melothria and Gronovia; the same is also observed in Cactus: In some others there is a Receptacle that elevates the Pericarpium, as in Passiflora, Capparis, Breynia, Arum, Calla, Dracontium, Pothos, Zostera, Nepenthes, Clutia,

Helieteres, and Sifyrinchium.

In monopetalous Flowers, the Stamina are usually inferted into the Petal, but they are separate from it in the Plantæ Bicornes*, viz. in Ledum, Azalea, Andromeda, Clethra, Erica, Myrsine, Memecylum, Santalum, Vaccinium, Arbutus, Royena, Diospyros, Melastoma, and Pyrola; they are separate also in Ciffus and Aloe. In polypetalous Flowers, the Stamina are usually separate from the Petals: But this also has a few Exceptions; for in the Statice, which is pentapetalous, the Filaments are inferted in the Claws of the Petals; in Melanthium, which is hexapetalous, they are inferted in the Petals: and in the Lychnis, which is pentapetalous, as also in Saponaria, Cucubalus, Silene, and Agrostema, which were formerly ranged with the Lychnis, every other Stamen is fastened to the Claws of the Petals.

^{*} Having two Horns; these Plants have been so called from their bisid Antheræ.

The ANTHERÆ are commonly placed on the Tops of the Filaments: But they stick close to the Sides of the Filaments in Paris and Afarum, and adhere to the Stigma without Filaments in Aristolochia.

The Singularities of the NECTARIUM have been already mentioned in Chap 12.

The PISTILLUM is commonly placed within the Antheræ: But in the Arum there is this Singularity, that the Receptacle runs out into a Club, the Base of which is occupied by the Pistilla, and the upper Part by the Stamina; so that here the Pistilla stand on the Outside of and surround the Stamina; and in the Calla of Ethiopia these Parts are disposed in the same Manner. The Rumex is singular in the Insertion of its Stamina.

The STYLE is commonly placed on the Top of the Germen: Some Exceptions to this have been given in Chap. 14. to these may be added Passerina, Gnidia, Struthia,

and Stellaria.

The PERICARPIUM is generally shut: But in Reseda and Datisca it is always open; in Parnassia it gapes at the Time of Flowering, and closes afterwards.

That the Pericarpia are ever found one within another, the greater containing the fmaller ones, Linnæus refuses to admit; for

although there is the Appearance of such a Singularity in Magnolia, Uvaria, and Michelia, he thinks the outer Pericarpium is in such Cases to be looked upon only as a common Receptacle.

Where the Pericarpium is a Berry, it is distinguishable into proper Berries, those which are formed of the Pericarpium; and improper or singular, such as are formed of

any of the other Parts.

The Berry is improper or fingular in the following Instances, viz. When it is a Cal, x, as in Blitum, Morus, Bafilla, Ephedra, Coix, Rosa and Coriaria; a Receptacle, as in Taxus, Rhizophora, Anacardium, Ochna, Laurus, Ficus, Dorstenia, and Fragaria; a Seed, as in Rubus, Magnolia, Uvaria Michelia, Prasium, Uvularia, Panax, Adonis, Crambe, and Ofteo-Spermum; an Arillus, as in Euonymus and Celastrus; a Nectarium, as in Mirabilis; a Corolla, as in Adoxa, Poterium, and Coriaria; a Capfule, as in Euonymus, Androfæmum, Cucubalus and Epidendrum; a dry Berry, as in Linnæa, Galium, &c. Tetragonia, Myrica, Trientalis, Tropæolum, Xanthium, Juglans, Ptelea, Ulmus, Comarum, Amygdalus and Mirabilis; a Capfule externally, as in Dillenia Clusia, Nymphæa, Capparis, Breynia, Mori-Jonia, Stratiotes, Cyclamen, and Strychnus; a E 2 bollow hollow Berry, as in Staphylaa, Cardiospermum and Capsicum; a Conceptacle, as in Actaa; a Legumen, as in Hymenaa, Cassia, Inga, and Ceratonia; or a Strobilus, as in Annona and Juniperus.

The Berry does not naturally burst, being fost, and the Dispersion of the Seeds being

defigned to be by Means of Animals.

The Berries in the Adonis of the Cape are evidently aggregate, many united in one.

CHAP. XIX.

Of AGGREGATE Flowers.

COMPLETE Flowers are either simple or aggregate. Simple Flowers differ from aggregate in this, that they have not any Part of Fructification common to many Flowers, as is the Case with aggregate. Flowers are called aggregate, when many Flosculi, Florets, are by the Mediation of some Part of the Fructification common to them all, so united, that no one of them could be taken out without destroying the Form of the whole, of which it was a Part. The common Part in aggregate Flowers is either the receptacle or the Calyx. A partial

tial Flower of the aggregate one is called Flosculus, a Floret. Aggregate Flowers are primarily divisible into seven Kinds, viz.

1. The Aggregate, properly so called. 2. The Compound. 3. The Umbellate. 4. The Cymose. 5. The Amentaceous. 6. The Glumose. 7. The Spadiceous: All which we shall explain in their Turns.

1. An AGGREGATE Flower, properly fo called, has a Receptacle that is dilate, extended in Breadth, the Florets standing on Peduncles, Foot-stalks*, as in Scabiosa, Knautia, Dipsacus, Cephalanthus, Globularia, Leucadendron, Protea, Brunia, Barreria, and

Statice.

2. A COMPOUND Flower † is an aggregate one, comprehending many Florets that are fessile, squatted, or without Peduncles, on a common Receptacle that is entire, and having also a common Perianthium, but furnished with Antheræ that grow together in the Form of a Cylinder.

The Properties of a compound Flower are, 1. A common Receptacle enlarged and undivided. 2. A common Perianthium, fur-

^{*} Peduncle is the Foot-stalk of a Flower only; the Foot-stalk of a Leaf is called a Petiole.

[†] These are the Flowers of the Class Syngenesia, see Part II. Chap 22.

rounding all the Florets. 3. The Florets monopetalous and sessile. 4. The Antheræ of each Floret sive in Number, and growing together in a Cylinder. 5. A monospermous Germen under each of the Florets. Of these Properties, the two last are essential to a compound Flower; but observe, that there are some whose Calyx contains only a single Floret, as Echinops, Stoebe, Corymbium, and

Artemisia.

Compound Flowers are of three Kinds: 1. Ligulate, when all the Corollula, little Corolle, of the Florets are plane, flat, shaped like Lizula, a narrow Tongue, or Fillet, and expanded towards the outer Side. 2. Tubulose, when all the Corollulæ of the Florets are Tubulofe, and nearly equal. 3. Radiate, having Rays, when the Corollulæ of the Difk, middle Parts, are Tubulose, and those of the Circumference, Margin, of another Form: Which Variation affords three Cafes, viz. when the Corollulæ of the Circumference are either ligulate, as in Achillea; tubulose, but unlike the tubulous Florets of the Disk, as in Centaurea; or naked, as in Artemisia and Gnaphalium. A compound Flower usually confists of many Florets, but rarely of a determinate Number of them.

aggregate one, confisting of many Florets placed on a Receptacle, on fastigiate Peduncles* that are all produced from the same Point: A simple Umbel is when the Receptacle is but once divided into Peduncles; a compound Umbel is when all the common Peduncles are subdivided into Umbellula, little Umbels; an Umbellula therefore is a partial Umbel.

Umbellate Flowers, properly so called †, have the following Properties. 1. A common Receptacle divided into Peduncles in the manner above mentioned, whether the Umbel produced be plane, flat; convex, rounding; or concave, bollow. 2. A Germen under the Corollula. 3. Five distinct Stamina that are deciduous. 4. A bisid Pistillum. 5. Two Seeds joined at their

Summits.

A Radiate Umbel is when the marginal Petals are larger than those of the Disk, as in Tordylium, Caucalis, Coriandrum, Ammi, and some Species of Heracleum; an Umbel may vary also in having the Flowers of the

* See the first Note in Chap. 8.

[†] The umbellate Flowers, properly so called, belong to the Order Digynia of the Class Pentandria; see Part II. Chap. 8.

Margin differing in Sex from those of the Disk, as in Astrantia, Caucalis, Artedia, Oemanthe and Scandix. The Involucrum varies, in being either Tetraphyllous, of four Leaves, as in Hydrocotyle, Sison, and Cuminum; Pentaphyllous, of sive, as in Bupleurum, Scandix, and Bubon; Heptaphyllous, of seven, as in Ligusticum; Decaphyllous, of ten, as in Artedia: With the partial Involucrum dimidiate, halved, going but half round, as in Æthusa, Coriandrum, and Sanicula; or Caducous, falling off, as in Ferula and Heracleum.

4. A CYMOSE Flower is an aggregate one, of many Florets, placed on a Receptacle upon fastigiate * Peduncles, the primary ones of which issue from the same Centre as in an Umbel; but the secondary, or partial ones, lie dispersed without Order; which Circumstance distinguishes the Cyma from the Umbel, as in Opulus, Ophiorrhiza, and the Species of Cornus called Virga sanguinea, or Bloody-rod,

5. An AMENTACEOUS aggregate Flower has a Filiform, Thread-shaped Receptacle, along which are disposed amentaceous Squamæ, Scales that form an Amentum or Catkin, as in Xanthium, Ambrosia, Par-

* See the first Note on Chap. 8.

5 thenium:

thenium, Iva, Alnus, Betula, Salix, Populus, Corylus, Carpinus, Juglans, Fagus, Quercus, Liquidambar, Cynomorion, Ficus, Dorstenia, Parietaria, Urtica, Pinus, Abies, Cupressus, Thuya, Juniperus, Taxus, and

Ephedra.

6. A GLUMOSE aggregate Flower has a filiform Receptacle, the Base of which is furnished with a common Glume, Husk, as in Bromus, Festuca, Avena, Arundo, Briza, Poa, Aira, Uniola, Cynosurus, Melica, Elymus, Lolium, Triticum, Secale, Hordeum, Scirpus,

Cyperus, and Carex.

7. A SPADICEOUS aggregate Flower is, when there is a Receptacle common to many Florets placed within a Spatha or Sheath; fuch a Receptacle is called a Spadix, and is either Branched, as in Palms, or Simple: In this last Case the Florets may be disposed either all round it, as in Calla, Dracontium, and Pothes; on the lower Part of it, as in Arum; or on one Side of it, as in Zostera.

CHAP. XX.

Of LUXURIANT Flowers, commonly called
DOUBLE

Flower is faid to be luxuriant, when fome of the Parts of Fructification are augmented in Number, and others thereby excluded. The Luxuriancy is commonly owing to the Luxuriancy of its Nourishment; the Part multiplied is usually the Corolla, but fometimes the Calyx also; and by this Increase of the Covers, the effential Parts of Fructification are destroyed. Luxuriant Flowers are divisible into. 1. Multiplicate, multiplied. 2. Pleni, full. And, 3. Proliferous, producing Young; to which may be added, 4. Mutilate, mained; fuch as are deficient in some Part, which stand opposed to the luxuriant ones: All these shall be explained in their Order.

1. Flowers are faid to be MULTIPLI-CATE, when by the Increase of the Corolla only a Part of the Stamina are excluded; and this distinguishes them from the Flores Pleni, full Flowers, in which the Multiplication of the Corolla is so great as to exculde them all. Multiplicate Flowers

are

are distinguished into Duplicate, Triplicate, Quadruplicate &c. that is, having a double, treble, or quadruple Series or Row, according to the Number of the Repetitions of the Corolla. The Polypetalous Flowers are the most subject to Multiplication; the Monopetalous are multiplied likewise, but it is very uncommon to meet with them full. A colored Perianthium, though it may have the Appearance of a Repetion of the Corolla, ought not to be considered as such; for though this appearance is in some Degree monstrous, unnatural, it is no Multiplication.

2. A Flower is faid to be PLENUS, full, when the Corolla is fo far multiplied as to exclude all the Stamina, as was before obferved. The Plenitude, Fullness, is occasioned by the Stamina running into Petals, with which the Flower is so crouded as frequently to choak the Pistillum also. The Parts essential to Generation being thus destroyed in full Flower it is evident they must be barren; wherefore no good Seed is to be expected from them *. And for the same Reason of their Impersection, we should be

^{*} Some few, as Papaver and Nigella, perfect their Seed: But these are rather multiplicate Flowers than full ones.

cautious also of constituting a Genus from them; for the Characters of a Genus should be drawn from the Parts when in their natural State, and not when in a State of

Luxuriancy.

Plenitude is chiefly incidental to polypetalous Flowers, as in Malus, Pyrus, Perfica, Cerafus, Amygdalus, Myrtus, Rosa, Fragaria, Ranunculus, Caltha, Hepatica, Anemone, Aquilegia, Nigella, Papaver, Pæonia, Dianthus, Silene, Lychnis, Coronaria, Lilium, Fritillaria, Tulipa, Narcissis, Colchicum, Crocus, Cheiranthus, Hesperis, Malva, Alcea, and

Hibifcus.

Plenitude of monopetalous Flowers is by fome Authors held a Contradiction; but this cannot be granted; for there are Inflances of it in Colchicum, Crocus, Hyacinthus, and Polianthes: However, it is rare that their Luxuriancy passes Duplicity. When they are filled, it is by the Multiplication of the Lacinia, Segments; whereas the Polypetalous are usually filled by the Multiplication of the Petals; but the Manner in which the Impletion, filling, is brought about, must be more particularly considered.

The Impletion is either in simple or compound Flowers; we shall begin with the

Simple.

The

The Impletion of SIMPLE Flowers, is by the Increase either of the Petals, or of the Nectarium. The Impletion of the Aquilegia is observed to be after three different manners, viz. either, 1. By multiplying its Petals, and excluding the Nectaria: 2. By multiplying its Nectaria, and excluding its Petals: Or, 3. By multiplying its Nectaria, and retaining its Petals; in which last Case the five Petals remain, and the Spaces between them are each of them filled up with a triple Case of Nectaria, that is, three Nectaria buried one within another.

The Impletion of the Nigella is by multiplying the Nectaria only; that of the Narciffus two Ways, by multiplying either the Nectarium only, or both Nectarium and Petals; that of Delphinium, for the most Part, by multiplying the Petals, and excluding the Nectarium: The Change wrought in the Saponaria Anglicana is remarkable, the Flower from Pentapetalous becoming truly Monopetalous; and the Alteration in the Peloria is also very fingular*: But the

^{*} The Peloria is a Plant which has been found in some Parts of Sweden, growing amongst the Species of Antirrhinum called Linaria. It resembles the Linaria so nearly, in every thing but the Flower, that they are not to be known one from the other, till their Flowers appear; and even in the Flowers they agree in the Calyx, Pericar-

most extraordinary Instance of Plenitude is that of the Opulus flore globoso, commonly called the Gelder Rose. In the common fimple Opulus, the Flowers are produced on a Cyma, which confifts of a great Number of Campanulate, Beil-shaped, Hermaphrodite Flowers in the Disk, and of others in the Circumference, whose Corollæ are larger, flat, and Wheel-shaped, and that are barren, wanting the Pistillum. But in the Opulus flore globoso, all the Flowers of the Disk are barren also, and shaped like those of the Circumference; fo that the Impletion here arises only from the additional Number of barren Flowers, the Corollæ of which are of a larger Size; and in this it refembles the Impletion of the compound Flowers, of which we shall prefently speak.

Pericarpium and Seeds, and also in Color: which has given Rise to a Supposition, that the Peloria is only a Linaria in a monstrous State; see the Dissertation of Daniel Rudberg on the Peloria in the Anænitates Academicæ, Vol. I. p. 280. But as the Linaria and Peloria disser so widely in their Corollæ and Stamina, that the former must be referred to the Class Didynamia, and the latter to the Class Pentandri v. the P. loria cannot be supposed to derive its Origin from the Linaria, without overturning the fundamental Principles of the Science; And therefore till more Instances can be produced of this kind of Irregularity in Nature, the Peloria cannot with Sasety be considered otherwise than as a Genus distinct from that of Antirrhinum.

Before

Before we leave the simple Flowers, it will be of Use to remark, that a simple Flower, in a State of Luxuriancy, may in all Cases be distinguished from a compound One in its natural State, by this Rule; That in simple Flowers, how much soever multiplied, there is but one Pistillum in the Centre of the Flower, common to the whole Multiplication; whereas in compound Flowers, each of the Florets is surnished with its own Pistillum and Stamina.

We come now to the Impletion of COM-POUND Flowers; that these are of three kinds, Ligulate, Tubulose, and Radiate, has been shown and explained in Chap. 19. where it has also been seen, that there is not either in the Ligulate or Tubulose any Distinction of Disk or Radius, all the Florets in these being alike; but that the contrary is the very Characteristic of the Radiate; now this being attended to, the manner of the Impletion will be easily understood. Compound Flowers gain their Impletion two Ways, either by the Radius, or the Disk. We shall begin with the first.

Impletion by the Radius is when, by the Multiplication of the Radius, the Disk of the Flower is filled up: as in Helianthus, Calendula, Chrysanthemum, Anthemis, Matri-

caria,

caria, Ptarmica, Tagetes, and the Species of Centaurea called Cyanus. In this Sort of Impletion, which belongs only to radiate Flowers, it is observable, that all the Florets which fill up the Disk follow the Conditions of those of the Radius; so that if the Florets of the Radius in the natural Flower have a Pistillum, all those of the full Flower will have one also, as in Matricaria, Bellis, Chrysanthemum, and Tagetes; or if they have no Pistillum, then it will also be wanting in the full one, as in Helianthus, Calendula, and Gentaurea; and the fame holds true of the male Part also; for as the Florets of the Radius in the natural Flower are never furnished with Anthera, fo these are wanting also in all those of the full ones. This last Remark is of great Use to distinguish a Radiate full Flower, from a Ligulate natural one; which might be confounded in many Cafes, were we not apprized, that there are Antheræ in the latter, but none in the former; by this Rule, in Chrysanthemum, Helianthus, Calendula, and Tagetes, when the Disk is destroyed by the Multiplication of the Radius, we know by the Defect of Antheræ, that it is only the Luxuriancy of a radiate Flower, as in Hieracium, Leontodon, and Sonchus; by the Prefence of the Antheræ

theræ we know the Flowers to be ligulate

Impletion by the Disk is, when there is no Multiplication of the Radius; but the Corollulæ of the Disk run out into Length, and have their Brims less divided: This manner of Impletion feems to concern only the Radiate and the Tubulose *. In the Radiate, it will fo far affect the Radius as to change its Flowers from Ligulate to Tubulose: Instances of this manner of Impletion may be had in Bellis, Matricaria, and Tagetes. In the Carduus of the Oats, which is a Species of Serratula, the Corollulæ are both lengthened and enlarged. In respect to the Ligulate Flowers, if we confine ourselves to the two-fold manner of Impletion, after the Author whose Divisions we have adopted, we shall be obliged to call their Impletion also, an Impletion by the Disk; though the Manner of it differs from that last explained, and the Expression does not so well answer to Flowers, that in the Botanical Sense of the Term have properly no Disk at all. But not to stop at too great Niceties, their

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^{*} This is not expressly afferted, as the Distinction is omitted, in the *Philosophia Botanica* of *Linnaus*; but it appears to be his Meaning, by his speaking of the Impletion of ligulate Flowers separately afterwards.

Impletion is by the lengthening of their Stigmata, and the enlarging and diverging of their Germina; by which Augmentations, the full Flowers are to be distinguished from the natural ones, as in Scorzonera and Lapsana vulgaris; which last, Linnaus tells us, is frequently found with a full Flower at Upsal.

3. Flowers are faid to be PROLIFE-ROUS, when one Flower grows out of another: This generally happens in full Flowers, the Fullness being the Cause of their becoming proliferous. Prolification is after two Manners; 1. From the Centre; 2.

From the Side.

Prolification from the Centre, which happens in simple Flowers, is when the Pistillum shoots up into another Flower standing on a single Peduncle; of which there are Instances in Dianthus, Ranunculus, Anemone, Geum, and Rosa.

Prolification from the Side, which happens in aggregate Flowers, properly so called (see Chap. 19.) is when many pedunculate Flowers are produced out of one common Calyx; of which there are Instances in Bel-

lis, Calendula, Hieracium, and Scabiofa.

In umbellate Flowers, the Prolification is by the Increase of the Umbellulæ, one simple

ple Umbellula producing another, as in Cornus and Periclymenum; and in this manner compound Umbels will become supradecompound, more than compounded a second Time, as in Selinum and Thysselinum.

A proliferous Flower is called Frondose*, leafy, when it produces Leaves; this rarely happens, but Instances of it have been found in Rosa, Anemone, and others: The other Kinds of Prolification are frequent enough.

4. MUTILLATE Flowers are the Reverse of Luxuriant. Linnaus confines the Term to those Flowers only that want the Corollæ, though they ought to be furnished with it; which often happens in Ipomaa, Campanula, Ruellia, Viola, Tussilago and Cucubalus: The Cause of this Desect he ascribes chiefly to the want of sufficient Heat.

F 2

^{*} Frons, with the Ancients (tho' frequently used, in respect to Trees, in the same Sense with Folium, a Leas) implied, in its proper Signification, a Part of the Wood of the Tree with the Leas; or as we should express it, a Twig with Leaves; and for this Reason they never applied the Term to the Leaves of Herbs (which were always called Folia) but only to those of Trees. Linnaus has availed himself of this old Distinction to make it a botanical Term; which he applies to express the Circumstances of Palms and Filices, Ferns; in the former of which the Branches, and in the latter even the Stem itself is an actual Leas: And here again he applies it to the leasy Prolification in Question, calling it Frondose, rather than Foliaceous, for the like Reason.

The Luxuriancy of the Calyx, mentioned in the beginning of this Chapter, is very infrequent, but not without Instances; in Dianthus Caryophyllus there is a Variety, in which the Squamæ, Scales, of the Calyx are so multiplied as to constitute a perfect Spike in a manner most singular: The Gramina, Grasses, of the Alps, become full by their Glumæ, Husks, shooting out into Leaves, as in a Species of the Festuca; and in Salix rosea, and Plantago rosea, the Squamæ of the Amentum of the former, and the Bracteæ* of the Spike in the latter will shoot into Leaves also.

Linnaus has enumerated some Tribes of Plants, which are not found subject to Luxuriancy; but as the Heads, under which he has ranged them, are taken from the Systems of preceding Writers, and not from the Sexual, it would perplex the Reader to explain them; and we shall therefore omit them: The Curious may have Recourse to them in the Philosophia Botanica, Page &1.

* Floral Leaves.

CHAP

CHAP. XXI.

Of the Sex of Plants.

THE Distinction of Flowers into Male, Female, Hermaphrodite, and Neuter, has been already explained in Chap. 4. To which we must add, that Hermaphrodite Flowers are sometimes distinguishable into Male Hermaphrodites, and Female Hermaphrodites: This is, when, although the Flower contains the Parts belonging to each Sex, one of them proves abortive or ineffectual; if the Defect be in the Stamina, it is a Female Hermaphrodite; if in the Pistillum, a Male one. The case wherein this Distinction becomes necessary, happens very rarely: It will be shewn in the Course of this Chapter.

Plants, in respect to Sex, take their Denominations from the Sex of their Flowers

in the manner following.

1. HERMAPHRODITE Plants are fuch as upon the same Root bear Flowers, that are all Hermaphrodite, as in most Genera.

2. ANDROGYNOUS, Male and Female, fuch as upon the fame Root bear both male F 3 and

and female Flowers, as in the Class Mono-ecia *.

3. MALE, fuch as upon the fame Root bear male Flowers only, as in the Class Dioecia †.

4. FEMALE, fuch as upon the fame Root bear Female Flowers only, as in the

Class Dioecia.

5. POLYGAMOUS;, fuch as either on the fame, or on different Roots bear Hermaphrodite Flowers, and Flowers of either or of both Sexes, as in the Class Polygamia §.

Of Plants that are Polygamous on the fame Root, there are three Cases: 1st. Male Hermaphrodite, and Female Hermaphrodite Flowers; which is a very rare Case, but is observed in Musa. 2d. Hermaphrodite ||, and Male Flowers, as in Veratrum, Celtis, Ægilops, and Valantia, 3d. Hermaphrodite and Female Flowers, as in Parietaria and Atriplex.

* See Part II. Chap. 24. † See Part II. Chap. 25.

† See the Signification of this Term explained in the Account of the Title of the Class Polygamia, in Part II. Chap. 26. These Plants are by some called Hybrid, Mongrel.

See Part II. Chap. 26.

In the Philosophia Botanica, the Hermaphrodite Flowers of this Class are put down Hermaphroditæ, Female Hermaphrodite; but the Instances shewit to be a Mistake.

Of fuch as are Polygamous on two distinct Roots, the Cases are four; 1st. Hermaphrodite* Flowers and Male, as in Panax, Nyssa, and Diospyros. 2d. Hermaphrodite Flowers and Female, as in Fraxinus. 3d. Hermaphrodite † Flowers and both Male and Female, as in Gleditsia ‡. 4th. Androgynous | and Male, as in Arctopus. Of Plants that are Polygamous on three distinct Roots there is but one Case, viz. Androgynous, Male, and Female, as in Ficus §.

* Hermaphroditæ, again in Phil. Bot.

+ Hermaphroditæ again.

† In the Gleditsia, which is the only known Instance of this Case, the Male Flowers and the Hermaphrodites are produced upon the same Plant, and the Females on a distinct one.

This case and the next, having no Hermaphrodite Flowers, seem to be Exceptions to the Definition of Po-

lygamous Plants.

§ The Instance of this Case given in the Philosophia Botanica is the Empetrum; but that Genus is removed to the Class Dioecia in the last Edition of the Genera Plantarum; where a Note informs us, that the Hermaphrodite Flowers, which the Author had once seen on a Plant of this Genus, could not afterwards be ever found again. We have therefore changed this instance for the Ficus, the only other Instance left of this singular Case.

INTRODUCTION

TO

BOTANY.

PART THE SECOND.

CHAP. I.

Of the SEXUAL SYSTEM, and its Divisions.

THE Sexual System was invented by Dr. Linnæus, Professor of Physic and Botany at Upsal. It is founded on the Parts of Fructification described in the former Part of this Work: These having been observed with more Accuracy, since the Discovery of the Uses for which Nature has assigned them, a new Set of Principles have been derived from them; by means of which,

which, the Distribution of Plants has been brought to a greater Precision, and rendered more conformable to true Philosophy in this System, than in any one of those which preceded it. The Author of it does not pretend to call it a natural one; he gives it as artificial only, and modestly owns his Inability to detect the Order pursued by Nature in her vegetable Productions: But of this he seems consident, that no natural System can ever be framed, without taking in the Materials, out of which he has raised his own; and urges the Necessity of admitting artificial Systems for Convenience, till one truly natural shall appear *.

By the Sexual System, Plants are disposed according to the Number, Proportion, and Situation of the Stamina and Pistilla: The Manner of their Distribution will appear in the following Chapters. We shall here only speak in general of the Divisions of the

System.

^{*} Linnæus has given Fragmenta Methodi naturalis, Fragments of the natural Method, in which he has made a Distribution of Plants under various Orders, putting together in each, such as appear to have a natural Assinity to each other: This, after a long and fruitless Search after the natural Method, he gives as the Result of his own Speculation, for the Assistance of such as may engage in the same Pursuit. See his Classes Plantarum, page 485. and Phil. Bot. page 27.

The first general Division of the whole Body of Vegetables is into twenty-four Classes; these are again subdivided into Orders, the Orders into Genera, the Genera into Species, and the Species into Varieties, where there are any worthy of Note. Of these Divisions, we shall treat of the three first only in this second Part. These more immediately respect the Theory of the Science than the other two, which, though systematic Divisions likewise, have, as our author observes, a nearer Relation to the Practice; and it is in these also that the principal Improvements in the Management of the Science are more particularly included.

As the Classes and Orders of the System will be separately treated of in the following Chapters, we shall conclude this Introductory one with a Table exhibiting their Titles at one View, in the Order in which they stand in the System that the Reader may have Recourse thereto as he finds Oc-

casion.

Table of the CLASSES and ORDERS.

CLASSES.

ORDERS.

- 1. Monandria
- 2. DIANDRIA
- 3. TRIANDRIA
- 4. TETRANDRIA
- 5. Pentandria
- 6. HEXANDRIA
- 7. HEPTANDRIA
- 8. OCTANDRIA
- q. ENNEANDRIA
- 10. DECANDRIA
- 11. Dodecandria
- 12. ICOSANDRIA

- 1. Monogynia. 2. Digynia.
- 1. Monogynia. 2. Digynia 3. Trigynia
 - 1. Monogynia. 2. Digynia. 3. Trigynia.
- 1. Monogynia. 2. Digynia.
- 3. Tetragynia
- (1. Monogynia. 2. Digynia. 3. Trigynia. 4. Tetragynia. 5. Pentagynia. 6. Polygynia.
- 1. Monogynia. 2. Digynia. 3. Trigynia. 4. Tetragynia.
 - 3. Trigynia. 4. Tetragynia. 5. Polygynia.
- 1. Monogynia. 2. Digynia. 3. Tetragynia. 4. Heptagynia.
- 1. Monogynia. 2. Digynia. 3. Trigynia. 4. Tetragynia.
- 1. Monogynia. 2. Trigynia. 3. Hexagynia.
- 1. Monogynia. 2. Digynia. 3. Trigynia. 4. Penta-
- gynia. 5. Decagynia. 1. Monogynia. 2. Digynia.
- 3. Trigynia. 4. Pentagynia. 5. Dodecagynia.
 - 1. Monogynia. 2. Digynia. 3. Trigynia. 4. Pentagynia. 5. Polygynia.

13. Po-

ELASSES.

ORDERS

- 13. POLYANDRIA
- 14. Didynamia
- 15. TETRADYNAMIA
- 16. MONADELPHIA
- 17. DIADELPHIA
- 18. POLYADELPHIA
- 19. SYNGENESIA
- 20. GYNANDRIA
- 21. MONORCIA

1. Monogynia. 2. Digynias 3. Trigynia. 4. Tetragynia. 5. Pentagynia. 6. Hexagynia. 7. Polygynia.

1. Gymnospermia. 2. Angiospermia.

1. Siliculofa. 2. Siliquofa. 1. Triandria. 2. Pentandria. 3. Octandria. Enneandria. 5. Decan-6. Endecandria. 7. Dodecandria. 8. Polyandria.

I. Pentandria. 2. Hexandria. 3. Octandria. 4. Decandria.

1. Pentandria. 2. Icofandria. 3. Polyandria.

1. Polygamia æqualis. 2. Polygamia superflua. 3. Polygamia frustranea. 4. Polygamia necessaria. 5. Polygamia segregata. 6. Monog amia.

1. Diandria. 2. Triandria. 3. Tetrandria. 4. Pentandria. 5. Hexandria. 6. Decandria. 7. Dodecandria.

8. Polyandria.

1. Monandria. 2. Diandria. 3. Triandria. 4. Tetrandria. 5. Pentandria. 6. Hexandria. 7. Heptandria. 8. Polyandria. 9. Monadelphia. 10. Syngenesia. 11. Gynandria.

22. Dio-

CLASSES.

ORDERS.

- 22. DIOECIA
- 23. POLYGAMIA
- 24. Cryptogamia Appendix
- 1. Monandria. 2. Diandria.
 3. Triandria. 4. Tetrandria. 5. Pentandria. 6.
 Hexandria. 7. Octandria.
 8. Enneandria. 9. Decandria.
 11. Polyandria. 12. Monadelphia. 13. Syngenesia.
 14. Gynandria.
 - 1. Monoecia. 2. Dioecia. 3. Trioecia.
- 1. Filices. 2. Musci. 3. Alge. 4. Fungi. 1. Palmæ,

CHAP. II.

Explanation of the Titles of the Twenty-four GLASSES.

AVING in the preceding Chapter given the Divisions of the System, we shall in this explain the Meaning of the Terms used for the Titles of the Classes. As these Terms in the Greek Language, from whence they are taken, are all expressive of the principal Circumstance that obtains in the Class to which they are applied, the Explanation of them will itself giveus a good infight into the proper Characters of the feveral Classes, and the fexual Distinctions on which they are founded: However, it will be necessary to fay something more particular concerning many of them afterwards in the Chapters we shall allot for each of them feparately.

CLASS I. MONANDRIA. 2. DI-ANDRIA. 3. TRIANDRIA. 4. TE-TRANDRIA. 5. PENTANDRIA.—6. HEXANDRIA. 7. HEPTANDRIA. 8. OCTANDRIA. 9. ENNEANDRIA. 10. DECANDRIA.—These ten Classes, which consist of Hermaphrodite

dite Flowers take their Denominations from the Number of Stamina, or male Parts of the Flower. The Word here compounded with the numerical Terms, fignifies a Husband; fo that the Title Monandria expresses, that the Flowers of this Class have but one Husband, that is, one Stamen; Diandria, two Stamina; Triandria, three; Tetrandria, four; Pentandria, five; Hexandria, six; Heptandria, seven; Octandria, eight; Enneandria, nine; and Decandria, ten. It must be observed however, that the Flowers being Hermaphrodite, as above mentioned, is in all these Classes a necessary Condition; for should the female Part be wanting, the Plant would belong to some other Class, notwithstanding the Number of Stamina may be fuch as would otherwise refer it to one of these: And this Caution we give once for all to avoid Repetitions, that when we use the Term Hermaphrodite, we mean that it is a Condition not to be difpenfed with.

CLASS XI. DODECANDRIA.—
This Term in the Greek imports that the Flowers have twelve Husbands or Stamina. However, the Class is not confined to this Number, but includes all such Hermaphrodite Flowers as are surnished with any Number of Stamina from twelve to nineteen inclusive:

inclusive: No Flowers have been yet found to have eleven Stamina, which is the Reason no Class has been allotted to that Number.

CLASS XII. ICOSANDRIA.—This Term imports, that the Flowers have twenty Husbands or Stamina: But here again the Title is to be understood with great Latitude; for though the Plants that belong to this Class are rarely found with less than twenty Stamina, yet they frequently have a greater Number: and they are therefore not to be known with Certainty from those of the next Class, without having Recourse to their classic Character; which, not being expressed in the Title, we forbear the Explanation of here, as we shall give it in the Chapter allotted for this Class.

CLASS XIII. POLYANDRIA.— This Term imports, that the Flowers have

many Stamina.

CLASS XIV. DIDYNAMIA.—This Term fignifies the Power or Superiority of two, and is applied to this Class, because its Flowers have four Stamina, of which there are two longer than the rest: This Circumstance alone is sufficient to distinguish this Class from the fourth, where the four Stamina are equal; but the Flowers of this Class have also their particular Character, besides

besides what the Title expresses, their Corollæ being mostly Ringent, as will be shewn in its Place*.

CLASS XV. TETRADYNAMIA.—This Term expresses the Power or Superiority of four; and accordingly there are in the Flowers of this Class six Stamina, four of which are longer than the rest; which Circumstance distinguishes them from those of the sixth Class, where the six Stamina are equal: But these Flowers have their particular Character also, their Corollæ being

Cruciform +.

CLASS XVI. MONADELPHIA.—The Word here, compounded with the numerical Term, fignifies a Brother. This Relation is employed to express the Union of the Filaments of the Stamina, which in this Class do not stand separate, but join at the Base, and form one Substance, out of which they proceed as from a common Mother; and the Title of the Class expresses a single Brotherhood, meaning that there is but one Set of Stamina so united, which disting-

† See Chap. 18. See also Part I. Chap. 3. where the Term Cruciform is explained.

^{*} See Chap. 17. See also Part I. Chap. 3. where the Term Ringent is explained.

guishes the Class from the two following ones. The Number of Stamina in this Class is not limited: The Flowers have

their particular Character *.

CLASS XVII. DIADELPHIA.—This Term expresses a double Brotherhood, or two Sets of Stamina, united in the manner explained in the preceding Class. The Number of the Stamina is not limited: The Flowers of this Class have a very particular Character, their Corolla being Papilionaceous, as will be shewn in its Place †.

CLASS XVIII. POLYADELPHIA.

—This Term expresses many Brotherhoods, or Sets. of Stamina; the Flowers have no classic Character, farther than is expressed in

the Title.

This Class XIX. SYNGENESIA.--This Class contains the compound Flowers described in Part I. Chap. 19. The Title signifies Congeneration, alluding to the Circumstance of the Stamina; in which, though the Filaments stand separate, yet the Antheræ, which are the Part more immediately subservient to Generation, are united in a

Cylinder,

^{*} See Chap. 19 + See Chap. 20. See also Part I. Chap. 3. for the Explanation of the Term Papilionaceous.

Cylinder, and perform their Office together, The classic Character will be explained in its Place *.

CLASS XX. GYNANDRIA.—The Term is compounded of two Words, that fignify Wife and Husband; and alludes to the fingular Circumstance of this Class, in the Flowers of which the Stamina grow upon the Pistillum; so that the male and female Parts are united, and do not stand separate,

as in other Hermaphrodite Flowers.

CLASS XXI. MO NO E C I A.—The Word here, compounded with the numerical Term, fignifies a House or Habitation. To understand the Application of this Title, we must know, that the Plants of this Class are not Hermaphrodite but Androgynous †, the Flowers that have the Stamina wanting the Pistillum, and those that have the Pistillum wanting the Stamina. Now the Term Monoecia, which signifies a single House, alludes to this Circumstance; that in this Class the male and semale Flowers are both sound on the same Plant, whereas in the next they have distinct Habitations.

CLASS XXII. DIOECIA.---This Term, which fignifies two Houses, is ap-

^{*} See Chap. 22.

⁺ See Part I. Chap. 21.

plied to this Class (the Plants of which are Male and Female) to express the Circumstance of the male Flowers being on one Plant, and the female on another; the contrary of which is the Case of the androgy-

nous Class Monoecia last explained.

The Term fignifies Plurality of Marriages. This Class produces, either upon the same or different Plants, Hermaphrodite Flowers, and also Flowers of one Sex only, be it male or female; or Flowers of each Sex; and the latter receiving Impregnation from, or giving it to the Hermaphrodites, as their Sex happens to be, the Parts effential to Generation in the Hermaphrodite Flowers do not confine themselves to the corresponding Parts within the same Flower, but become of promiscuous Use; which is the Reason of giving this Title to the Class.

CLASS XXIV. CRYPTOGAMIA.
---The Term fignifies Concealment of Marriages; this Class confisting of such Plants
as either bear their Flowers concealed within the Fruit *, or have them so small, as to
be imperceptible.

^{*} The Ficus, whose Flowers are within the Fruit used to be put in this Class, but is since removed to the 23d Class Polygamia.

CHAP. III.

Explanation of the TITLES of the ORDERS.

THE Titles of the Orders have been given in Chap. 1. It remains to ex-

plain them,

CLASS I. to XIII. inclusive .- The Orders of the first thirteen Classes take their Denominations from the Number of the Pistillum, or Female Part of the Plant, which is usually reckoned from the Baje of the Style, if there be any; but if the Style be wanting the Number is fixt from the Stigmata. The Greek Word, compounded with the numerical Terms in the Titles of these Orders fignifies a Wife: Monogynia implies one Wife or one Style; Digynia, two Styles; Trigynia, three; Tetragynia, four; Pentagynia, five; Hexagynia, six; Decagynia, ten; and Polygynia, many. These are the Titles that occur in the Orders of these thirteen Classes; and this general Explanation of them will be thought fufficient, as from the Table given in the first Chapter it appears how they are employed in the Classes.

CLASS XIV. DIDYNAMIA.---Of the three Orders of this Class the two first

are founded on a Distinction in the Fru t, The Title of the first Order, Gymnospermia, is expressive of such Plants as have naked Seeds; and that of the fecond, Angiospermia, of such as have their Seeds in a Vessel or Pericarpium. The third Order, Polypetala, is expressive of fuch Plants as have many Petals: This Order seems to have been established in Favor of one Genus of Plants only, the Melianthus, the Flowers of which are Polypetalous, though those of all the rest of this Class are Monopetalous *.

CLASS XV. TETRADYNAMIA. --- The two Orders of this Class are founded on a Distinction in the Pericarpium. In the first Order, Siliculosa, the Pericarpium, is a Silicula, little Siliqua; which differs from the Siliqua in being round, and having the Apex of the Diffepiment, which had been the Style, prominent beyond the Valves, often so far as to be equal in Length to the Silicula. In the fecond Order, Siliquofa, the Pericarpium is a Siliqua, which is long and without any remarkable Extension of the Style.

^{*} This Order is omitted in the Systema Naturæ, published in 1756. See the Note on this Order in Chapter **37:**

CLASS XVI. MONADELPHIA. XVII. DIADELPHIA. XVIII. POLYADEL-PHIA. The Orders of these three Classes are founded on the Number of the Stamina in each Brotherhood or distinct Set of Stamina. The Titles of the Orders being the same that are used for the Titles of the early Classes of the System, the Explanation need

not be repeated here.

CLASS XIX. SYNGENESIA .--- To understand the orders of this Class, we must explain what is meant by Polygamy in Flowers. We have already treated of polygamous Plants, and shewn that the Term Polygamous, as there applied, alluded to the Intercommunication of the male or female Flowers with the Hermaphrodite ones, either upon the fame or a distinct Plant: But in respect to Flowers, the Term is applied to a fingle Flower only; for the Flowers of this Class being Compound, a Polygamy arifes from the Intercommunication of the feveral Florets in one and the fame Flower. Now the *Polygamy* of *Flowers*, in this Sense of the Word, affords four Cases, which are the Foundations of the four first Orders of this Class. 1st. Order, Polygamia æquali:, equal Polygamy, is when all the Florets are Hermaphrodite. 2d. Order, Polygamia sup r-G 4 flue,

flua, superfluous, Polygamy, when some of the Florets are Hermaphrodite, and others Female only; for in this Case, as the Fructification is perfected in the Hermaphrodites, the Addition of the Females is a Superfluity. 3d. Order, Polygamia frustranea, frustraneous or ineffectual Polygamy, when some of the Florets are Hermaphrodite, and others Neuter; for in this Case the Addition of the Neuters is of no Affistance to the Fructification. 4th. Order, Polygamia necessiaria, necessary Polygamy, when some of the Florets are Male, and the rest Female; for in this Cafe there being no Hermaphrodites, the Polygamy arifing from the Composition of the Florets of different Sexes is necessary to perfect the Fructification. 5th Order, Polygamia segregata. The Title signifies to be feparated, the Plants of this Order having partial Cups growing out of the common Calyx which furround and divide the Flofculi or Florets. 6th Order, Monogamia: The Title fignifies a fingle Marriage, and is opposed to the Polygamia of the four other Orders; for in this, though the Antheræ are united, which is the effential Character of the Flowers of this Class, the Flower is fimple, and not compounded of many Florets, as in the other Orders.

CLASS

CLASS XX. GYNANDRIA. The Orders of this Class are founded on the Number of Stamina. The Titles have been al-

ready explained.

CLASS XXI. MONOECIA. XXII. DIOECIA. These two Classes, whose Flowers have no fixt Character but that of not being Hermaphrodite, take in the Characters of almost every other Class; and the Orders have accordingly been disposed under the Titles of those Classes, to which their respective Flowers would have belonged, if the Stamina and Pistillum had been under the same Covers: As the Explanation of all these Titles has been given in the last Chapter in the Explanation of the Classes, it need not be repeated here.

Class XXIII. POLYGAMIA. In this Class the Titles of the two first Orders are the same with the Titles of the twenty-first and twenty-second Classes, and are to be understood in the same manner; that is, 1. Monoecia, when the Polygamy is on the same Plant; and, 2. Dioecia, when it is on distinct Plants. The Order Trioecia has been established in Favour of a single Genus, the Ficus; in which the Polygamy is on three distinct Plants, one producing Male Flowers,

another

another Female, and a third Hermaphrodite,

or Androgynous.

CLASS XXIV. CRYPTOGAMIA. The Orders of this Class are, 1. Filices, Ferns.

2. Musci, Mosses. 3. Algae, Flags; and 4. Fungi, Mushrooms. As the Explanation of the Character of these Orders will come more properly into the Chapter that treats particularly of this Class, we shall content ourselves here with having interpreted the Titles as above.

CHAP. IV.

Of the first Class Monandria.

THIS Class consists of such Plants as bear Hermaphrodite Flowers, furnished with but one Stamen. The Orders are two, viz.

ORDER I. MONOGYNIA, comprehending fuch Plants as have but one Style. This Order contains fourteen Genera, Diftinguished into, 1. Trilocular, such as have the Pericarpium divided into three Loculaments: of which there are eleven, viz. Canna, Amomum, Costus, Alpinia, Maranta, Curcuma, Kamptseria, Thalia, Myrosma, Phyllachne, and Renealmia. 2. Monospermous, such as have

have a fingle Seed, of which there are three, viz. Boerhaavia, Salicorvia, and Hippuris.

ORDER II. DIGYNIA, comprehending fuch Plants as have two Styles. This Order contains five Genera, viz. Corifpermum, Callitriche, Blitum*, Cinna†, and Mniarum.

CHAP. V.

Of the second Class, DIANDRIA.

HIS Class consists of such Plants as bear Hermaphrodite Flowers, surnished with two Stamina. The Orders are three, viz.

Order I. MONOGYNIA, comprehending fuch Plants as have but one Style. This Order contains thirty-one Genera, distinguished into, 1. Such as have regular Corollæ, of which there are eleven, viz. Nyctanthes, fasminum, Ligustrum, Phillyrea, Olea, Chionanthus, Syringa, Dialium, Eranthemum, Circæa, and Wulfenia. 2. Such as have irregular Corollæ, and the Fruit Angiospermous; of which there are ten, viz. Vēroni-

† The Seeds in a Vessel.

^{*} Plantæ, one of the seven Orders of Vegetables.
† Gramminæ, Grass, one of the seven Orders of Vegetables.

ca, Pæderota, Justicia, Dianthera, Gratiola, Schwenkia, Pinguicula, Utricularia, Calceolaria, and Globba. 3. Such as have irregular Corolla, and the Fruit Gymnospermous*; of which there are twelve, viz. Verbena, Lycopus, Amethystea, Cunila, Ziziphora, Monarda, Rosmarinus, Salvia, Collinsonia, Morina, Ancestrum, and Thouinia.

ORDER II. DIGYNIA, comprehending fuch Plants that have two Styles. This Order contains but one Genus, viz. Anthoxan-

thum.

ORDER III. TRIGYNIA, comprehending fuch Plants that have three Styles. There is but one Genus of this Order, viz. Piper.

CHAP. VI.

Of the third Class TRIANDRIA.

THIS Class consists of such Plants as bear Hermaphrodite Flowers, furnished with three Stamina. The Orders are three, viz.

ORDERI. MONOGYNIA, comprehending fuch Plants as have but one Style. This Order contains thirty-four Genera, distinguished into, 1. Those whose Flowers have

^{*} The Seeds naked.

no Spatha or Amentum; of which there are fixteen, viz. Valeriana, Olax, Willichia, Tamarindus, Rumphia, Cneorum, Camocladia, Melothria, Ortegia, Loeflingia, Polycnemum, Hippocratea, Rotala, Witsenia, Pommerculla, and Dilatris. Such as have spathaceous Flowers, and a trilocular Capsule; of which there are ten, viz. Crocus, Ixia, Gladiolus, Antholyza, Iris, Moræa Wachendorsia, Commelina, Callisia, and Xyris. 3. Such as have an imbricated Amentum, and are Gymnospermous*; of which there are eight, viz. Schoenus, Cyperus, Scirpus, Eriophorum, Lygeum, Nardus, Kyllinga, and Fuirena.

ORDER II. DIGYNIA, comprehending such Plants as have two Styles. This Order contains thirty-one Genera †, viz. Bobartia, Cornucopia, Saccharum, Panicum, Phleum, Alopecurus, Milium, Agrostis, Aira, Melica, Poa, Briza, Uniola, Dactylis, Cynosurus, Festuca, Bromus, Stipa, Avena, Lagurus. Arundo, Aristida, Lolium, Elymus, Secale, Hordeum, Triticum, Phallaris, Paspalum,

Rottboella, and Anthistiria.

ORDER III. TRIGYNIA, comprehending

* The Seeds fingle and naked.

fuch

⁺ All the Plants of this Order are Graffes, the Leaves of which are Food for Cattle, the small Seeds for Birds, and the larger Grain for Man.

fuch Plants as have three Styles. This Order contains eleven Genera, viz. Eriocaulon, Montia, Proserpinaca, Triplaris, Holosteum, Polycarpon, Mollugo, Minuartia, Queria, Lechea, and Koenigia.

CHAP. VII.

Of the fourth Class, TETRANDRIA.

bear Hermaphrodite Flowers, furnished with four Stamina. The Flowers of this Class may be known from those of the four-teenth by this Distinction, that the Stamina are of an equal Length; whereas those of the fourteenth, which have four Stamina likewise, there are two long and two short. The Orders of this Class are three, viz.

ORDER I. MONOGYNIA, comprehending fuch Plants as have but one Style. This Order contains feventy Genera, diffinguished into, 1. Such as have aggregate Flowers properly so called*, with the Seeds single and naked; of which there are seven, viz. Protea, Cephelanthus, Globularia, Dipsacus, Knautia, Scabiosa, and Allionia. 2. Such as have their Flowers monopetalous on a double

* See Part I. Chap. 19.

Fruit

Fruit, and the Style bifid, of which there are twenty *, viz. Hedyotis, Spermacoce, Sherardia, Asperula, Diodia, Knoxia, Manettia, Houstonia, Gallium, Crucianella, Rubia, Scabrita, Embothrium, Hydrophylax, Hartogia, Acaena, Bancksia, Orixa, Othera, and Skimmia. 3. Such as have monopetalous Flowers otherways circumstanced; of which there are twenty, viz. Siphonanthus, Catesbæa, Ixora, Pavetta, Petefia, Mitchella, Callicarpa, Aquartia, Polypremum, Penæa, Blaeria, Buddleja, Exacum, Plantago, Scoparia, Rhacoma, Centunculus, Sanguisorba, Cissus, and Ægiphila. 4. Such as are tetrapetalous and complete; of which there are twelve, viz. Epimedium, Cornus, Fagara, Tomex, Amannia, Ptelea, Ludwigia, Oldenlandia, Isnardia, Santalum, Trapa, and Samara. 5. Such as are incomplete ‡; of which there are Eleven, viz. Dorstenia, Elæagnus, Crameria, Rivina, Salvadora, Camphorofma, Alchemilla, Strutbiola, Cometes, and Sirium.

ORDER II. DIGYNIA, comprehending fuch Plants as have two Styles. This Order contains nine Genera, viz Aphanes, Cruzita,

^{*} These are the Stellatæ, Starry Plants, of Ray. See his Hist, of Plants, page 447. They are held to be aftringent and diuretic.

[†] Not wanting either Calyx or Corolla.

[‡] Calyx or Corolla wanting.

Bufonia, Hamamelis, Cuscuta, Hypecoum,

Galopina, Gomozia, and Gonocarpus.

ORDER III. TETRAGYNIA, comprehending fuch Plants as have four Styles. This Order contains seven Genera, viz. Ilex, Coldenia, Potamogeton, Ruppia, Sagina, Myginda, and Tillaa.

CHAP. VIII.

Of the fifth Class, PENTANDRIA.

THIS Class consists of such Plants as bear Hermaphrodite Flowers, furnished with five Stamina. The Orders are fix, viz.

ORDER I. MONOGYNIA, comprehending fuch Plants as have but one Style*. This Order contains one Hundred and Fifty-five Genera, distinguished into, 1. Monopetalous Tetraspermoust, of which there are fixteen t, viz. Heliotropium, Myosotis, Lithospermum, Anchusa, Cynoglossum, Pulmonaria, Symphy-

tum,

^{*} The Berries of the monopetalous Plants of this Order are for the most Part poisonous.

[†] With four Seeds. † These are the Asperisolia, rough-leaved Plants of Ray's Hist. page 487. They are accounted glutinous and vulnerary.

tum, Onosma, Cerinthe, Borago, Asperugo, Lycopsis, Echium, Nolana, Tournefortia, and Messerschmidia. 2. Monopetalous with the Capfule within the Flower; of which there are thirty-five, viz. Diapensia, Aretia, Androsace, Primula, Cortusa, Porana, Soldanella, Dodecatheon, Cyclamen, Menyanthes, Hottonia, Hydrophyllum, Lysimachia, Anagallis, Theophrasta, Patagonula, Spigelia, Ophiorrhiza, Randia, Azalea, Plumbago, Phlox, Convol-vulus, Ipomea, Lisianthus, Brossæa, Allamanda, Polemonium, Nigrina, Retzia, Schefțieldia, Epacris, Doraena, Weigela, Tectona, and Ignatia. 3. Monopetalous with the Germen below the Flower; of which there are thirty-one, viz. Campanula, Roella, Phyteuma, Trachelium, Samolus, Nauclea, Rondeletia, Macrocnemum, Bellonia, Portlandia, Clnchoma, Psychotria, Coffea, Chiococca, Ceropegia, Lonicera, Triosteum, Morinda, Conocarpus, Hamellia, Erithalis, Menais, Genipa, Matthiola, Scevola, Mulfanda, Virecta, Escallonia, Caroxylon, Elaeodendron, and Hovenia. 4. Such as have declining Stamina; of which there are feven, viz. Mirabilis, Coris, Verbascum, Datura, H;0cyamus, Nicotiana, and Atropa. 5. Monopetalous, with a Berry above the Receptacle; of which there are twenty-two, viz. H Phy-

Physalis, Solanum, Capsicum, Strychnos, Jacquinia, Chironia, Brunsfelsia, Cordia, Pergularia, Cestrum, Ebretia, Varronia, Laugieria, Lycium, Chrysophyllum, Sideroxylum, Rhamnus, Arduina, Ellisia, Phylica, Bladhia, and Fagraea. 6. Polypetalous, of which there are thirty-one, viz. Ceanothus, Byttneria, Myrsine, Celastrus, Euonymus, Diosma, Brunia, Itea, Galax, Cedrela, Mangifera, Hirtella, Ribes, Gronovia, Hedera, Vitis, Lagoecia, Sauvagesia, Claytonia, Achyranthes Roridula, Cubnia, PleEtronia, Cyrilla, Aquilicia, Heliconicia, Carissa, Celosia, Calodendrum, Chenolea, and Corynocarpus. 7. Incomplete Flowers of which there are three, viz. Illecebrum, Glaux, and Thefium. 8. Such as have the *Lobes* of the *Corollæ* bent obliquely to the Right: of which there are nine, viz. Rauvolfia, Cerbera, Vinca, Gardinea, Nerium, Plumeria, Echites, Cameraria, and Tabernamontana.

ORDER II. DIGYNIA, comprehending fuch Plants that have two Styles. This Order contains feventy-five Genera, distinguished into 1. Such as have the Lobes of the Corolla bent obliquely to the right; of which there are six, viz. Periploca, Cynanchum, Apocynum, Asclepias, Linconia, and Stapelia.

Stapelia. 2. Monospermous *; of which there are ten, viz. Herniaria, Chenopodium, Beta, Salsola, Anabasis, Cressa, Gomphrena, Steris, Bosea, and Ulmus. 3. Polyspermous; of which there are thirteen, viz. Nama, Hydrolea, Heuchera, Swertia, Schrebera, Velezia, Gentiana, Bumalda, Coprosma, Cus-Sonia, Melodinus, Russelia, and Vahlia. 4. Gymnodifpermous't, with a fimple Umbel; of which there are three \(\), viz. Phyllis, Eryngium, and Hydrocotyle. 5. Gymnodispermous with an universal and partial Involucrum, of which there are twenty-feven, viz. Sanicula, Astrantia, Bupleurum, Echinophora, Tordylium, Gaucalis, Artedia, Daucus, Ammi, Bunium, Conium, Selinum, Athamanta, Peucedanum, Crithmum, Hasselquistia, Cachrys, Ferula, Laserpitium, Heracleum, Ligusticum, Angelica, Sium, Sison, Bubon, Cuminum, and Oenanthe. 6. Gymnodispermous with only one partial Umbel; of which there are eight, viz. Phellandrum, Cicuta,

† Having two naked Seeds.

^{*} Single-feeded. + Many-feeded.

[§] These Plants, and those of the two Distinctions next following which are Gymnodispermous also, are the umbellate Plants of Tournesort's Seventh Class. See his Institution, R. H. In dry Soils they are aromatic, warm, resolvent, and carminative, but in moist Places poisonous. The Virtue is in the Roots and Seeds.

Æthusa, Coriandrum, Scandix, Charophyllum, Imperatoria, and Seseli. 7. Gymnodispermous without any Involucrum, of which there are eight, viz. Thapsia, Pistinaca, Smyrnium, Anethum, Carum, Pimpinella,

Apium, and Ægopodium.

ORDER III. TRIGYNIA, comprehending fuch Plants as have three Styles. This Order contains feventeen Genera, viz. Rhus, Viburnum, Cassine, Sambucus, Spathelia, Staphylea, Tamarix, Turnera, Telephium, Corrigiola, Pharnaceum, Alsine, Drypis, Basella, Sarothra, Xylophylla, and Semecarpus.

ORDER IV. TETRAGYNIA, compre-

ORDER IV. TETRAGYNIA, comprehending fuch Plants as have four Styles. This Order contains two Genera, viz. Parnassia,

and Evolvulus.

ORDER V. PENTAGYNIA, comprehending such Plants as have five Styles. This Order contains ten Genera, viz. Aralia, Mahernia, Statice, Linum, Aldrovanda, Drosera, Crassula, Sibbaldia, Gisekia, and Commersonia.

ORDER VI. POLYGYNIA, comprehending fuch Plants as have many Styles. This Order contains but one Genus, viz.

Myosurus.

CHAP.

CHAP. IX.

Of the fixth Class, HEXANDRIA.

THIS Class consists of such Plants as bear Hermaphrodite Flowers, furnished with fix Stamina. The Flowers of this Class may be known from those of the sisteenth by this Distinction, that the Stamina are of equal Length; whereas in those of the sisteenth which have six Stamina likewise, there, are four long and two short. The

Orders of this Class are five, viz.

Order I. MONOGYNIA, comprehending such Plants as have but one Style. This Order contains sixty-two Genera, distinguished into 1. Such as have trisid Corollæ, and a Calyx, of which there are seven viz. Bromelia, Tillandsia, Burmannia, Tradescantia, Bursera, Licuala, and Lackenalia. 2. Such as have monophyllous Spatha, of which there are nine, viz. Pontederia, Hæmanthus, Galanthus, Leucojum, Tulbagia, Narcissus, Pancratium, Duroia, and Nandina. 3. Such as are hexapetalous and naked*; of which there are twenty-sive, viz. Crinum, Amaryllis, Bulbocodium, Aphyl-

* Without a Calyx.

H 3 lanthes,

lanthes, Allium, Lilium, Fritillaria, Uvularia, Gloriofa, Tulipa, Erythronium, Albuca,
Ornithogalum, Scilla, Hypoxis, Cyaneua, Afphodelus, Anthericum, Leontice, Dracena,
Afparagus, Ehrharta, Massonia, Phormium,
and Pollia. 4. Monopetalous and naked,
of which there are ten, viz. Convallaria,
Polyanthes, Hyacinthus, Aletris, Yucca, Aloe,
Agave, Alstromeria, Capura, and Hemerocallis.
5. Such as have a Calyx, but the Corollà
not trisid; of which there are thirteen, viz.
Acorus, Orontium, Calamus, Juncus, Achras,
Richardia, Prinos, Berberis, Loranthus,
Frankenia, Hillia, Peplis, and Canaria.

ORDER II. DIGYNIA, comprehending fuch Plants as have two Styles. This Order contains four Genera, viz. Atraphaxis,

Oryza, Falkia, and Gahnia.

ORDER III. TRIGYNIA, comprehending fuch Plants as have three Styles. This Order contains ten Genera, viz. Flagellaria, Rumex, Scheuchzeria, Triglochin, Melanthium, Medeola, Trillium, Colchicum, Helonias, and Wurmbea.

ORDER IV. TETRAGYNIA, comprehending fuch Plants as have four Styles. Of this Order there is but one Genus, viz. Petiveria.

ORDER V. POLYGYNIA, comprehending

ing such Plants as have many Styles. Of this Order there is but one Genus, viz. Alisma.

CHAP. X.

Of the seventh Class, HEPTANDRIA.

HIS Class consists of such Plants as bear Hermaphrodite Flowers, surnished with feven Stamina. The Orders of this Class are four, viz.

ORDER I. MONOGYNIA, comprehending fuch Plants as have but one Style. This Order contains three Genera, viz. Trientalis,

Difandra, and Æsculus.

ORDER II. DIGYNIA, comprehending fuch Plants as have two Styles. This Order contains but one Genus, viz. Limeum.

ORDER III. TETRAGYNIA, comprehending such Plants as have four Styles. Of this Order there are but two Genera, viz.

Saururus, and Aponogeton.

ORDER IV. HEPTAGYNIA, containing fuch Plants as have feven Styles. Of this Order there is but one Genus, viz. Septas.

CHAP. XI.

Of the eighth Class, OCTANDRIA.

HIS Class consists of such Plants as bear Hrmaphrodite Flowers, furnished with eight Stamina. The Orders are four, viz.

Order I. MONOGYNIA, comprehending fuch Plants as have but one Style. Of this Order there are thirty-one Genera, viz. Tropæolum, Ofbeckia, Rhexia, Oenothera, Gaura, Epilobium, Melicocca, Griflea, Amyris, Allophylus, Combretum, Fuchfia, Ximenia, Mimufops, Jambolifera, Memecylon, Lawfonia, Vaccinium, Erica, Daphne, Dirca, Gnidia, Stellera, Passerina, Lachnæa, Antichorus, Chlora, Dodonæa, Ophira, Guarea, and Bæckea.

ORDER II. DIGYNIA, comprehending fuch Plants as have two Styles. This Order contains five Genera, viz. Galenia, Weinmannia, Moehringia, Schmidelia, and Codia.

ORDER III. TRIGYNIA, comprehending fuch Plants as have three Styles. This Order contains five Genera, viz. Polygonum, Coccoloba, Paullinia, Cardiospermum, and Sapindus.

ORDER IV. TETRAGYNIA, comprehencing finch Plants as have four Styles. This Oran contains four Genera, viz. Paris,

Adoxa, Elatine, and Haloragis.

CHAP.

CHAP. XII.

Of the ninth Class, Enneandria.

HIS Class consists of such Plants as bear Hermaphrodite Flowers, furnished with nine Stamina. The Orders are three, viz.

ORDER I. MONOGYNIA, comprehending fuch Plants as have but one Style. This Order contains four Genera, viz. Laurus,

Tinus, Anacardium, and Caffyta.

ORDER II. TETRAGINIA, comprehending such Plants as have three Styles. This Order contains but one Genus, viz. Rheum.

ORDER III. HEXAGYNIA, comprehending such Plants as have fix Styles. Of this Order there is but one Genus, viz. Butomus.

CHAP. XIII.

Of the tenth Class, DECANDRIA.

HIS Class consists of such Plants as bear Hermaphrodite Flowers, furnished with ten Stamina. The Orders are sive, viz.

ORDER

ORDER I. MONOGYNIA, comprehending fuch Plants as have but one Style. This Order contains fifty-fix Genera, distinguished into 1. Such as have declined Stamina, of which there are fifteen, viz. Sophora, Anagyris, Cercis, Baubinia, Parkinfonia, Hymenæa, Cassia, Poinciana, Cæsalpinia, Guilandina, Guaiacum, Cynometra, Anacardium, Swietenia, and Dictamnus. 2. Such as have erect Stamina, of which there are forty-one, viz Ruta, Toluifera, Hamatoxylum, Adenanthera, Melia, Trichilia, Zygophyllum, Quassia, Fagonia, Tribulus, Thryallis, Murraya, Monotropa, Justieua, Limonia, Melastoma, Kalmia, Ledum, Quisqualis, Dais, Bergera, Bucida, Copaifera, Samyda, Rhododendron, Andromeda, Epigæa, Gualtheria, Arbutus, Clethra, Pyrola, Prosopis, Heisteria, Chalcas, Codon, Styrax, Turræa, Dionæa, Ekebergia, Inocarpus, and Myroxylon,

ORDER II. DIGYNIA, comprehending fuch Plants as have two Styles. Of this Order there are twelve Genera, viz. Royena, Hydrangea, Cunonia, Chryfofplenium, Saxifraga, Tiarella, Metella, Scleranthus, Trianthema, Gyfophila, Sapanaria, and Dianthema,

thus.

Or-

ORDER III. TRIGYNIA, comprehending fuch Plants as have three Styles. Of this Order there are twelve Genera, viz, Cucubalus, Silene, Stellaria, Arenaria, Cherleria, Garidella, Malpighia, Banisteria, Triopteris, Erythroxylon, Hiræa, and Deutzia.

ORDER IV. PENTAGYNIA, comprehending fuch Plants as have five, Styles, Of this Order there are fourteen Genera, viz. Averrhoa, Spondias, Cotyledon, Sedum, Penthorum, Oxalis, Suriana, Lychnis, Agroftema, Cerastium, Spergula, Grielum, Forskohlea, and Bergia.

ORDER V. DECAGYNIA, comprehending fuch Plants as have ten Styles. This Order contains two Genera, viz.

Neurada, and Phytolacca.

CHAP XIV.

Of the eleventh Class, Dodecandria.

THIS Class, notwithstanding its Title which is expressive of twelve Stamina, consists of such Plants as bear Hermaphrodite Flowers, furnished with any Number of Stamina from twelve, to nineteen inclusive*. The orders are sive, viz.

Order I. MONOGYNIA, comprehendhending such Plants as have but one Style. This Order contains twenty-five, Genera, viz. Afarum, Gethyllis, Bocconia, Rhizophora, Blakea, Garcinia, Winterana, Cratava, Triumfetta, Bassia, Peganum, Halesia, Nitraria, Portulaca, Hudsonia, Lythrum, Ginora, Decumaria, Besaria, Vatica, Apactis, Canella, Dodecas, Eurya, and Aristotelia.

ORDER II. DIGYNIA, comprehending fuch Plants as have two Styles. Of

this

^{*} Tormentilla is an Exception, belonging to the next Class, though it has but sixteen Stamina. The Characters of the Fructification in the next Class over-rule the Number of the Male Part expressed in its Title.

this Order there are two, Genera, viz. Helio-

carpus, and Agrimonia.

ORDER III. TRIGYNIA, comprehending fuch Plants as have three Styles. This Order contains five Genera, viz. Reseda, Euphorbia, Pallasia, Tacca, and Visnea.

ORDER IV. PENTAGYNIA, comprehending fuch Plants as have five Styles. This Order contains but one Genus, viz.

Glinus.

ORDER V. DODECAGYNIA, comprehending fuch Plants as have twelve Styles. This Order contains but one Genus, viz. Sempervivum.

CHAP XV.

Of the twelfth Class, Icosandria*.

HIS Class consists of such Plants as L bear Hermaphrodite Flowers, of the following Characters, viz. 1. A Calyx monophyllous, and concave. 2. The Corolla fastened by its Claws to the inner Side of the Calyx. 3. The Stamina twenty or more. As the Number of Stamina in this

^{*} This Class furnishes the Fruits most in Esteem.

Class, notwithstanding its Title, is not limited, an Attention must be had to the two sirst-Characters, to distinguish the Flowers from those of the next Class, with which they might otherwise be confounded. The Orders are five, viz.

ORDER I. MONOGYNIA, comprehending fuch Plants as have but one Style. This Order contains eleven Genera, viz. Cactus, Eugenia, Philadelphus, Psidium, Myrtus, Punica, Amygdalus, Prunus, Plinia, Chryso-

balanus, and Sonneratia.

ORDER II. DIGYNIA, comprehending fuch Plants as have two Styles. Of this Order there is but one Genus, viz. Cratæ=gus.

ORDER III. TRIGYNIA, comprehending fuch Plants as have three Styles. This Order contains two Genera, viz. Sorbus,

and Sefuvium.

ORDER IV. PENTAGYNIA, comprehending such Plants as have five Styles. This Order contains six Genera, viz. Mespilus, Pyrus, Tetragonia, Mesembryanthemum, Aizoon, and Spiræa.

ORDER V. POLYGYNIA, comprehending such Plants as have many Styles. This Order contains nine Genera, viz. Rosa,

· Rubus,

Rubus, Fragaria, Potentilla, Tormentilla, Geum, Dryas, Comarum, and Calycanthus.

CHAP. XVI.

Of the thirteenth Class, POLYANDRIA*.

THIS Class consists of such Plants as bear Hermaphrodite Flowers, furnished with many Stamina. The Diftinction between this Class and the twelfth may be known by having Recourse to the Characters of the twelfth Class in the preceding Chapter. The Orders are feven, viz.

ORDER I. MONOGYNIA, comprehending fuch Plants as have but one Style. This Order contains forty-two Genera, distinguished into, 1. Such as have scarce any Style, of which there are thirteen viz. Marcgravia, Rheedia, Capparis †, Actaa, Sanguinaria, Podophyllum, Chelidonium, Papaver, Argemone, Muntingia, Cambogia, Sarracena, and Nymphæa. 2. Such as have a Style of some Length, of which there are

^{*} The Fruits of this Class are often poisonous; which makes it necessary to distinguish them from those of the last, which abounds with eatable Fruits.

⁺ Capparis has some Length of Style.

twenty-nine, viz. Bixa, Sloanea, Mammea, Ochna, Calophyllum, Grias, Tilia, Laetia, Elacocarpus, Lecythis, Vateria, Lagerstroemia, Thea, Caryophyllus, Mentzelia, Delima, Ciftus, Prockia, Corchorus, Seguieria, Loosa, Trewia, Trilix, Alstonia, Cleyera, Myristica, Sparrmania, Ternstromia, and Vallea.

ORDER II. DIGYNIA, comprehending fuch Plants as have two Styles. This Order contains four Genera, viz. Pæonia, Calligo-

num, Curatella, and Fothergilla.

ORDER III. TRIGYNIA, comprehending fuch Plants as have three Styles. This Order contains two Genera, viz. Delphinium, and Aconitum.

ORDER IV. TETRAGYNIA, comprehending fuch Plants as have four Styles. This Order contains three Genera, viz. Te-

tracera, Caryocar, and Cimicifuga.

ORDER V. PENTACYNIA, comprehending fuch Plants as have five Styles. This Order contains four Genera, viz. Aquilegia, Nigella, Reaumuria, and Brathys.

ORDER VI. HEXAGYNIA, comprehending fuch Plants as have fix Styles. This Order contains but one Genus, viz.

Stratiotes.

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ORDER VII. POLYGYNIA, comprehendhending fuch Plants as have many Styles. This Order contains twenty-one Genera, viz. Dillenia, Liriodendron, Magnolia, Michelia, Uvaria, Annona, Anemone, Atragene, Clematis, Thalictrum, Adonis, Illicium, Ranunculus, Trollius, Isopyrum, Helleborus, Caltha, Hydrastis, Houtuynia, Unona, and Wintera.

CHAP. XVII.

Of the fourteenth Class, DIDYNAMIA.

HIS Class consists of such Plants as bear Hermaphrodite Flowers, surnished with sour Stamina; two of which are longer than the rest. This Circumstance would suffice to distinguish it from the fourth Class, in which the sour Stamina are equal; however, as the Flowers of this Class have a particular Structure, there are general Characters which will nearly serve for the whole Class; and these we will give at Length.

Characters of the Class, DIDYNAMIA. CALYX—A Perianthium, monophyllous, erect, tubulate, quinquesid, with Segments for the most Part unequal, and persisting.

COROLLA---Monopetalous and erect, the Base of which contains the Honey, and does the Office of a Nectarium. The upper Lip I ftrait:

ftrait: the lower spreading and trifid. The

middle Lacinia the broadest.

STAMINA---Four Filaments, subulate, inserted in the tube of the Corolla, and inclined towards the back thereof. The two inner and nearest the shortest. All of them parallel, and rarely exceeding the length of the Corolla. The Antheræ lodged under the upper Lip of the Corolla in pairs; in each of which respectively the two Antheræ approach each other.

PISTILLUM---The Germen commonly above the Receptacle. The Style, fingle, filiform, bent in the fame form as the Filaments, usually placed within them, a little exceeding them in length, and slightly curved towards the summit. The Stigma

for the most Part emarginate.

PERICARPIUM--Either wanting (fee the First Order) or, if present, usually Bi-

locular (fee the Second Order).

SEEDS---If no Pericarpium, four, lodged within the hollow of the Calyx, as in a Capfule; but if there be a Pericarpium, more numerous, and fastened to a Receptacle placed in the Middle of the Pericarpium.

The Flowers of this Class are for the most Part almost upright, but inclining a little at an acute Angle from the Stem, that

the Corolla may more eafily cover the Antheræ, and that the Pollen may fall on the Stigma, and not be foaked with the rain. The effential Character is in the four Stamina; of which the two nearest are shorter and all four close to each other, and transmitted with the fingle Style of the Pistillum through a Corolla that is unequal.

The Orders of this Class are two, viz.

ORDER I. GYMNOSPERMIA*, comprehending fuch Plants as have naked Seeds. This Order has these farther Characters, viz. the Seeds four (excepting Phryma, which is mono(permous;) and the Stigma bipartite, and acute, with the lower Lacinia reflexed. It contains thirty-four Genera, distinguished into 1. Such as have the Calyx quinquefid, and nearly equal, of which there are twenty, viz. Ajuga, Teucrium, Satureja Thymbra, Hyssopus, Nepeta, Lavandula, Betonica, Sideritis, Mentha, Glechoma, Perilla, Lamium, Galeopsis, Stackys, Ballota, Marrubium, Leonurus, Phlomis, and Moluccella. 2. Such as have the Calyx bilabiate, divided into two Lips; of which there are fourteen, viz.

^{*} The Plants of this Order are scented, and are accounted cephalic and resolvent. The Virtue is in the Leaves. They are the Labiati (lipped Plants) of Tournefort, and Verticillati (Plants that flower at the Joints) of Ray's Hist. Plant. 508.

Clinopodium, Origanum, Thymus, Melissa, Dracocephalon, Horminum, Melittis, Ocymum, Trichostema, Scutellaria, Prunella, Gleonia,

Prafium, and Phryma.

ORDER II. ANGIOSPERMIA †, comprehending fuch Plants as have the Seeds in a Pericarpium, which Circumstance is constant, and distinguishes this Order from the last in every Form. To this Character may be added that of a Stigma, commonly obtuse. This Order contains fixty-nine. Genera, diffinguished into 1. Such as have a simple Stigma, and personate Corollæ; of which there are thirteen, viz. Bartsia, Rhinanthus, Euphrasia, Melampyrum, Lathraa, Schwalbea, Tozzia, Pedicularis, Gerardia, Chelone, Gesneria, Antirrhinum, and Cymbaria. 2. A simple Stigma and spreading Corollæ, of which there are thirty, viz. Craniolaria, Martynia, Torenia, Scrophularia, Celssa, Digitalis, Bignonia, Citharexylum, Halleria, Crescentia, Gmelina, Petrea, Lantana, Cornutia, Loeselia, Capraria, Selago, Hebenstretia, Erinus, Buchnera, Browallia, Linnæa, Sibthorpia, Limosella, Hemimeris, Dombeya, Castilleja, Millingtonia, Thunbergia, and Amasonia. 3. With a double Stigma; of which there are twenty-five, viz. Ste-

⁺ These are the Personati, Personate Flowers of Tournefort. modia,

modia, Obolaria, Orobanche, Dodartia, Lippia, Sesamum, Mimulus, Ruellia, Barleria, Duranta, Ovieda, Volkameria, Clerodendron, Vitex, Bontia, Columnea, Acanthus, Pedalium, Avicennia, Vandelia, Manulea, Besleria, Lindernia, Premna, and Hyobanche. 4. Such as have many Petals, of which there is but one Genus, viz. Melianthus.

CHAP. XVIII.

Of the fifteenth Class, TETRADYNAMIA*.

THIS Class consists of such Plants as L bear Hermaphrodite Flowers, furnished with fix Stamina, two of which are shorter than the rest, by which last Circumstance it may be distinguished from the fixth Class, whose Flowers have fix equal Stamina. The Flowers of this Class are of a particular

^{*} These are the Crucifermes (cress-shaped Flowers) of Tournefort, and the Siliculofa, and the Siliquofa (Plants that have a Silicula and Siliqua) of Ray's Hift. Plant. 777. This Class is truly natural, and has been assumed as such by all Systematists, though Individuals have often added one or more Genera to it, contrary to Nature. Linnaus thinks he has given no wrong one, unless it be Cleome. The Distinction into Siliculose, and Siliquose, is admitted by all. The Plants are held to be Antiscorbutic and Diuretic. The Taste in most is watery, mixt with a Sharpness. They commonly lose their Quality when dried. The effential Character of the several Genera in this Class depends commonly on the Situation of the nectariferous Glandule.

Structure, answering to the Characters following.

Characters of the Class TETRADYNAMIA.

CALYX---A Perianthium tetraphyllous, and oblong; the Leaves of which are ovatooblong, concave, obtufe, conniving, gibbous downwards at the Base, the opposite ones equal and deciduous. The Calyx in these Flowers is a Nectarium; which is the Reafon of the Base being gibbous.

COROLLA---called Cruciform. equal Petals. The Claws plano-fubulate, erect, and fomewhat longer than the Calyx. The Limb plane. The Laminæ widening outwards, obtufe, the Sides hardly touching one another. The Infertion of the Petals is in the fame Circle with the Stamina.

STAMINA---The Filaments fix, and fubulate; of which two that are opposite are of the Length of the Calyx; the other four fomewhat longer, but not fo long as the Corolla. The Antheræ oblong, acuminate, thicker at the Base, erect, and with their Tops leaning outwards. There is a nectariferous Glandule, which in the different Genera has various Appearances; it is feated close to the Stamina, and particularly to the

two.

two shorter ones, to whose Base it is fastened; and these have a light Curvature to prevent their pressing upon it, whereby those Filaments become shorter than the rest.

PISTILLUM—The Germen above the Receptacle increasing daily in Height. The Style either of the Length of the longer Stamina, or wanting. The Stigma obtuse.

PERICARPIUM—A Siliqua of two Valves, often Bilocular, opening from the Base to the Top. The Dissepiment projecting at the Top beyond the Valves, the prominent Part thereof having before served as a Style.

SEEDS—Roundish, inclining downwards, alternately plunged lengthwise into the Dissepiment. The Receptacle linear, surrounding the Dissepiment, and immersed in the Sutures of the Pericarpium. The

Orders are two, viz.

ORDER I. SILICULOSA, comprehending those Plants whose Pericarpium is a Silicula *. This Order contains fourteen Genera, viz. Myagrum, Vella, Anastatica, Subularia, Draba, Lepidium, Thlaspi, Cochlearia, Iberis, Alyssum, Peltaria, Clypeola, Biscutella, and Lunaria,

^{*} See the Account of this Order in Chap. 3.

ORDER II. SILIQUOSA, comprehending those Plants whose Pericarpium is a Siliqua *. This Order contains eighteen Genera, viz. Ricotia, Dentaria, Cardamine, Sisymbrium, Erysimum, Cheiranthus, Heliophila, Hesperis, Arabis, Turritis, Brassica, Sinapis, Raphanus, Bunias, Isatis, Crambe, Cleome, and Chamira.

CHAP. XIX.

Of the sixtcenth Class, Monadelphia †.

HIS Class consists of such Plants as bear Hermaphrodite Flowers, furnished with one Set of united Stamina. This Class consists of eight Orders. The Characters of the Flowers are as follow.

Characters of the Class Monadelphia. CALYX---A Perianthium always present,

perfifting, and in most Genera double.

COROLLA—Pentapetalous, the Petals heart-shaped; the Sides of which lap each one over the next, contrary to the Motion of the Sun.

* See Chap. 3.

† In this Class the Calyx is of great Moment for diftinguishing the Genera, and fixes the Limits with Certainty. They were formerly distinguished by the Fruit; which not being found sufficient, recourse was had to the Leaves of the Plant. The Plants of this Class are esteemed to be emollient, and mucilaginous.

STAMINA,

STAMINA—The Filaments united below, but distinct upwards if there be more than one *. The exterior ones shorter than the interior. The Antheræ incumbent.

PISTILLUM—The Receptacle of the Fructification prominent in the Centre of the Flower. The Germen erect, furrounding the Top of the Receptacle in a jointed Ring. The Styles are all united below in one Subfitance with the Receptacle, but divided above into as many Threads as there are Germen. The Stigma spreading and thin.

PERICARPIUM—A Capfule divided into as many Loculaments as there are Pistilla. Its Figure various in the different

Genera.

SEEDS—Kidney-shaped.

The Corolla in this Class has been called Monopetalous; but as the Petals are all diftinct at the Base, it is to be styled more properly Pentapetalous, notwithstanding the Petals cohere by the Union of the Stamina. The Orders are eight, viz.

ORDER I. TRIANDRIA, comprehending fuch Plants as have three Stamina. This

^{*} The Melochia has five Antheræ, but it does not appear that there are any distinct Filaments. See its Character in the Genera Plantarum.

Order contains three Genera, viz. Aphyteja,

Galaxia, and Hydnora.

ORDER II. PENTANDRIA, comprehending fuch Plants as have five Stamina. This Order contains five Genera, viz. Waltheria, Lerchea, Hermannia, Melochia, and Symphonia.

ORDER III. OCTANDRIA, comprehending such Plants as have eight Stamina. Of this Order there is but one Genus, viz.

Aitonia.

ORDER IV. ENNEANDRIA, comprehending fuch Plants as have nine Stamina. Of this Order there is but one Genus, viz. Dryandra.

ORDER V. DECANDRIA, comprehending fuch Plants as have ten Stamina. This Order contains three Genera, viz.

Conarus, Geranium †, and Hugonia.

ORDER VI. ENDECANDRIA, comprehending fuch Plants as have eleven Sta-

† The Species of this Genus varies fingularly in the number of Stamina and other circumstances, viz. from 1 to 22 they have seven fertile Stamina, the leaves alternate, and many Flowers on a peduncle; from 23 to 35 they have seven fertile Stamina and the leaves growing opposite; from 36 to 45 sive fertile Stamina, the Calyx sive leaves, and the fruit declined; from 46 to 58 ten fertile Stamina, and two Flowers on a Peduncle; from 59 to 68 ten fertile Stamina, two Flowers on a Peduncle, and the Plants annual; from 69 to 82 ten fertile Stamina, and one Flower on a Peduncle.

mina.

mina. Of this Order there is only one

Genus, viz. Brownea.

ORDER VII. DODECANDRIA, comprehending such Plants as have twelve Stamina. This Order contains only one Ge-

nus, viz. Pentapetes.

ORDER VIII. POLYANDRIA, comprehending such Plants as have many Stamina. This Order contains twenty-one Genera, viz. Bombax, Sida, Adansonia, Althæa, Alcea, Malva, Lavatera, Malope, Urena, Gosspium, Hibiscus, Stewartia, Camellia, Morisonia, Mesua, Malachra, Gordonia, Gustavia, Carolinea, Barringtonia, and Solandra.

CHAP. XX.

Of the seventeenth Class, DIADELPAIA*.

THIS Class consists of such Plants as bear Hermaphrodite Flowers, surnish-

* The Plants of the Class, Diadelphia, are the Papilionaceous, Butterfly-shaped Plants, of Tournefort; irregular tetrapetalous of Rivinus; and leguminous of Ray's Hist. Plant. 883. Of all the Classes, this is the most natural, and has its Flowers of the most singular Structure. The Calyx, though hitherto little attended to, is of great Moment for fixing the Genera. The Legumen was held of consequence by other Systematists; but by Linnous it is made of less Account. The Leaves of these Plants are Food for Cattle, and the Seeds also for Quadrupeds of the same Kind; the latter are accounted statulent.

ed with two Sets of united Stamina †. The Characters of the Fructification are as follow.

Characters of the Class DIADELPAIA.

CALYX—A Perianthium monophyllous, campanulate, and withering. The Base gibbous, the lower Part thereof fastened to the Peduncle, the upper obtuse and melliferous. The Brim quinquedentate, acute, erect, oblique, unequal. The lowest odd Denticle longer than the rest; the upper Pair shorter and farther asunder. The Bottom of the Cavity moist with a melleous Liquor, including the Receptacle.

COROLLA — Termed Papilionaceous, unequal; the Petals expressed by distinct

Names, viz.

Vexillum, the Standard; a Petal covering the rest, incumbent, greater, plano-horizontal, inserted by its Claw in the upper Margin of the Receptacle, approaching to a cir-

† This Circumstance, implied in the Title, does not hold through the Class, the Plants given under the first Distinction of the third Order, having monodelphious Stamina; the Class is therefore not so properly to be fixed from its Title, as by the papilionaceous Corolla, and other Characters of the Fructification. It may be observed likewise, that in the diadelphious Flowers of this Class, one of the two Stamina is not a Set of united Filaments as in the other, but only a fingle Stamen, detached from the united Set. See the Characters of the Fructification.

cular

cular Figure when it leaves the Calyx, and nearly entire; along it, and especially towards its Extremity, runs a Line, or Ridge, that rises up, as if the lower Part of the Petal had been compressed; the Part of the Petal next to the Base approaching to a semicylindric Figure, embraces the Parts that lie under it. The Disk of the Petal is depressed on each Side, but the Sides of it nearest the Margin are reslexed upwards. Where the halved Tube ends, and the halved Limb begins to unfold itself, are two concave Impressions prominent underneath, and compressing the Wings, that lie under them.

Alæ, the Wings, two equal Petals, one at each Side of the Flower, placed under the Vexillum; incumbent with their Margins parallel, roundish, or oblong, broader upwards, the upper Margin straighter, the lower spreading more into a Roundness; the Base of each Wing bisid, the lower Division stretching out into a Claw, inserted in the Side of the Receptacle, and about the Length of the Calyx; the upper shorter and inflexed.

Carina, the Keel, the lowest Petal, often Bipartite, placed under the Vexillum and between the Alæ, boat-shaped, concave, compressed on the Sides, set like a Vessel assoat,

muti-

mutilate at the Base, the lower Part of which runs into a Claw of the Length of the Calyx, and inserted in the Receptacle, but the upper and side Laciniæ are interwoven with that Part of the Alæ that is of the same Shape. The Form of the Sides of the Carina, is much like that of the Alæ; and so also is their Situation, except that they are lower, and stand within them. The Line that forms the Carina, or Keel, in this Petal, runs straight as far as the Middle, and then rises gradually in the Segment of a Circle, but the marginal Line runs straight to the Extremity, where meeting the carinal, they terminate obtusely.

STAMINA—Called Diadelphia. The Filaments two, of different Forms, viz. a lower one that involves the Pistillum, and an upper one incumbent on it. The former of these, from the Middle downwards, is cylindraceous, membranaceous, and split lengthwise on its upper Side; but the upper Half terminates in nine subulate Parts, that are of the same length with, and sollow the Flexure of the Carina of the Corolla, and of which the intermediate or lower Radii † are longer by alternate Pairs. The upper Fila-

* Awl-shaped.

ment

⁺ Rays, meaning the Divisions of the Filaments.

ment is subulato-setoset, covering the splitting of the former cylindraceous Filament, incumbent on it, answering to it in Situation, simple and gradually shorter; its Base is detached from the rest, and prepares an Outlet for the Honey on each Side. The Antheræ reckoned all together are ten, one on the upper Filament, and nine on the lower, each of the Radii being furnished with a fingle one; they are finall, all of one Size, and terminate the Radii.

PISTILLUM—Single, growing out of the Receptacle, within the Calyx. The Germen oblong, roundish, lightly compressed, straight, of the Length of the Cylinder of the lower Filament which involves it. The Style fubulate, filiform, ascending, having the same length and Position as the Radii of the Filament among which it is placed, and withering. The Stigma downy, of the Length of the Style from the Part turned upwards, and placed immediately under the Antheræ.

PERICARPIUM—A Legumen, oblong, compressed, obtuse, bivalved, with a Longitudinal Suture both above and below; each Suture straight, though the upper one falls near the Base, and the lower one rises near

¹ Awl-shaped, and like a Briftle.

the Top. The Legumen opens at the up-

per Suture.

SEEDS — A few, roundish, fmooth, fleshy, pendulous, marked with an Embrio that is a little prominent towards the Point of Infertion. When the Ova * are hatched. the Cotyledons † preserve the Form of the halved Seed.

RECEPTACLE—The proper Receptacles of the Seeds are very fmall, very fhort, thinner towards the Base, obtuse at the Disk that fastens them, oblong, inferted longitudinally in the upper Suture of the Legumen only, but placed alternate; fo that when the Valvulæ have been parted, the Seeds adhere alternately to each of the Valves.

The ordinary Situation of the Flowers is obliquely pendulous; that is, at an acute Angle from the Perpendicular. The Orders

are four, viz.

ORDER I. PENTANDRIA, comprehending fuch Plants as have five Stamina.

* Eggs, meaning the Seeds themselves, which answer to the Eggs of Animals, and are as it were hatched when the Corculum, or first Principle of the new Plant begins to strike Root and vegetate. See Part I. Chap. 7.

+ Side Leaves of the Seed. See Part I. Chap. 7. The two Seed Leaves, which first appear above Ground, are these very Cotyledons, which are brought up with the Plant after the Corculum has struck; and it is these Seed Leaves that are here spoken of.

Of

Of this Order there is only one Genus, viz. Monnieria.

ORDER II. HEXANDRIA, comprehending fuch Plants as have fix Stamina. This Order contains two Genera, viz. Fumaria, and Saraca.

ORDER III. OCTANDRIA, comprehending fuch Plants as have eight Stamina. This Order contains three Genera, viz. Poly-

gala, Securidaca, and Dalbergia.

ORDER IV. DECANDRIA, comprehending fuch Plants as have ten Stamina. This Order contains fifty Genera, distinguished into, 1. Such as have monodelphous * Filaments; of which there are feventeen, viz. Niffolia, Erytbrina, Pifcidia, Borbonia, Spartium, Genista, Aspalathus, Amorpha, Crotolaria, Ononis, Anthyllis, Ebenus, Abrus, Pterocarpus, Ulex, Arachis and Lupinus. 2. Such as have Diadelphious † Filaments and downy Stigma; of which there are ten, viz. Phaseolus, Dolichus, Glycine, Clitoria, Pisum, Orobus, Lathyrus, Vicia, Cicer, and Ervum. 3. Such as have Diadelphious Filaments, bilabiate Calyces, and the Stigma not downy; of which there are fix, viz. Cytisus, Geoffroya, Robinia, Colutea, Glycirrhiza, and Coronilla. 4. Such as have

^{*} One Set, or Brotherhood.

[†] Two Sets, or Brotherhoods.

Diadelphious Filaments, Stigma that are not downy, and Calyces not bilabiate; of which there are feventeen, viz. Ornithopus, Hippocrepis, Scorpiurus, Hedyfarum, Æschynomene, Indigosera, Galega, Phaca, Astragalus, Biserrula, Psoralea, Trisolium, Lotus, Liparia, Trigonella, Medicago, and Mullera.

CHAP. XXI.

Of the eighteenth Class, Polyadelphia.

THIS Class consists of such Plants as bear Hermaphrodite Flowers, furnished with many Sets of united Stamina; the Flowers have no particular Character farther than is expressed in the Title. The Orders are four, viz.

ORDER I. PENTANDRIA, comprehending fuch Plants as have five Stamina in each Set. Of this Order there are two Ge-

nera, viz. Theobroma and Abroma.

ORDER II. DODECANDRIA, comprehending fuch Plants as have twelve Stamina in each Set. Of this Order there is but one Genus, viz. Monsonia.

ORDER III. ICOSANDRIA, comprehending fuch Plants as have twenty Stamina

in

in each Set. Of this Order there is but one

Genus, viz. Citrus.

ORDER IV. POLYANDRIA, comprehending such Plants as have many Stamina in each Set. This Order contains eight Genera, viz. Hypericum, Ascyrum, Hopea, Symplocos, Melaleuca, Durio, Munchhausia, and Glabraria:

CHAP XXII.

Of the ninetceth Class, Syngenesia *.

THIS Class consists of such Plants as bear Compound Flowers. We have already paved the way for understanding this Class, by the Account given of Compound Flowers in Part I. Chap. 19. and the Explanation of the Titles of the Class and its Orders in Chap 2. and 3. What is farther necessary here, is to give the Characters of the Flowers. Compound Flowers admit of a double Description, viz. of the whole Flower in its aggregate State, which is termed the Flosculose Flower; and 2. of

^{*} This Class of Compound Flowers is a natural one, it we except the last Order; which upon the systematic Principles assumed, could not be refused an Admission into it. Its Plants are commonly bitter and stomachic.

the Flosculi, Florets, of which it is composed. We shall begin with the first, which concerns only the Calyx and Receptacle, those being the only Parts that are in common.

Characters of the Flosculose Flower.

CALYX—The common Calyx is a Perianthium, which contains the Florets and the Receptacle. It is either *fimple*, augmented, or imbricated*. It contracts when the Flowers are fallen, but expands and turns back

when the Sceds are ripe.

RECEPTACLE—The common Receptacle of the Fructification receives many feffile Florets on its Difk, which is either concave, plane, convex, pyramidal, or globofe. The Surface of the Difk is either naked, without any other Inequality than that of being lightly dotted; Villofe, covered with upright Hairs; or Paleaceous, covered with Palea, Chaffs, or Straws, that are linear, fubulate, compressed, and erect, and serve to part the Florets.

Characters of the Florets †.

CALYX---A fmall Perianthium, often quinquepartite, feated on the Germen, per-fifting,

^{*} See these Terms explained in Part I. Chap. 11.
† The Character here given is of an Hermaphrodite
Floret;

fifting, and becoming the Crown of the Seed.

COROLLA---Monopetalous with a long and very narrow Tube. It is feated on the Germen, and is either tubulate, with the Limb campanulate and quinquefid, and the Laciniæ spreading and turning back; ligulate, with the Limb linear, plane, turned outwards, and the Top whole; tridentate, or quinquedentate; or wanting, having no Limb, and often no Tube.

STAMINA—The Filaments five, capillary, very short, inserted in the Neck of the Corollulæ. The Antheræ sive, linear erect; and by the Union of their Sides forming a Cylinder, that is tubulate, quinquedentate, and of the Length of the Limb.

PISTILLUM----The Germen oblong, placed under the Receptacle of the Flower; the Style siliform, erect, of the Length of the Stamina, and perforating the Cylinder of the

Floret; but the Florets may also be either Male, Female, or Neuter, as the Orders shew; it may not be improper therefore to observe, in general, upon these Classic Characters, which our Author has drawn with such minute Exactness, that they should be understood as collected only from the Circumstances that most frequently occur in the Class, and liable to Variation, not in particular Genera only, but even through the whole Orders of the Class in some Cases.

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Antheræ; the Stigma bipartite, the Laciniæ revolute, and spreading asunder.

PERICARPIUM --- No true one, though

in fome there is a coriaceous * Crust.

SEED—A fingle one, oblong, often tetragonous, but commonly narrower at the Base. It is either crowned, or with the Crown wanting. The Crown is of two Kinds, either a Pappus, or a Perianthium; if a Pappus, it is either sessible, or placed on a Stipes; and consists of many Radii, that are placed in a round, and are either simple, radiate, or ramose; when the Crown is a Perianthium, it is such as is described above under that Head.

The Essence of a Flosculose Flower consists in having the Antheræ united in a Cylinder, and a single Seed below the Receptacle of the Floret. The Orders of this Class are six, viz.

* Leathery.

† That the Effence of a flosculose or compound Flower does not confist either in the common Calyx or Receptacle Linnæus argues from hence, that the common Calyx is wanting in Echinops, and the common Receptacle in Milleria, though both those Genera belong to this Class; and that on the other Hand, the common Calyx is found in Scabiosa, and the common Receptacle in Dipsacus, both which Plants belong to the Class Tetrandria, though they have, with the Gomphrena and others, been falsely ranged with the compound Flowers.

ORDER I. POLYGAMIA ÆQUALIS, comprehending fuch Plants as have Compound Flowers, of which the Florets are all Herma-This Order contains forty-two Genera, distinguished into 1. Such as have ligulate Compound Flowers, of which there are nineteen, viz. Geropogon, Tragopogon, Scorzonera, Picris, Sonchus, Lactuca, Chondrilla, Prenanthes, Leontodon, Hieracium, Crepis, Andryala, Hyoseris, Seriola, Hypochæris, Lapfana, Catananche, Cichorium, and Scolymus. 2. Such as have tubulofe compound Flowers; of which there are twenty-three, viz. Arctium, Serratula, Carduus, Cnicus, Onopordon, Cynara, Carlina, Carthamus, Bidens, Cacalia, Atractylis, Eupatorium, Ageratum, Ethulia, Staehelina, Chrysocoma, Calea, Tarchonanthus, Pteronia, Athanasia, Spilanthus, Santolina, and Barnadefia.

Order II. POLYGAMIA SUPERFLUA, comprehending such Plants as have the Florests of the Disk Hermaphrodite, and those of the Radius Female. This Order contains thirty-eight Genera, distinguished into 1. Tubulose; of which there are eight, viz. Tanacetum, Artemisia, Gnaphalium, Xeranthemum, Carpesium, Baccharis, Cotula, and Conyza.

2. Radiate; of which there are thirty, viz. Erigeron, Tussilago, Senecio, Aster, Soli-K4

dago, Inula, Cineraria, Arnica, Doronicum, Perdicium, Helenium, Bellis, Leysera, Tagetes, Pectis, Chrysanthemum, Matricaria, Anacyclus, Anthemis, Achillea, Tridax, Zinnia, Verbesina, Sigesbeckia, Bupthalmum, Eclipta, Bel-

lium, Amellus, Unxia, and Mutifia.

ORDER III. POLYGAMIA FRUSTRA-NEA, comprehending such Plants as have the Florets of the Disk Hermaphrodite, and those of the Radius neuter. This Order contains nine Genera, all radiate, viz. Helianthus, Rudbeckia, Coreopsis, Gorteria, Osmites, Zoegea, Centaurea*, Sclerocarpus, and Didelta.

ORDER IV. POLYGAMIA NECES-SARIA, comprehending such Plants as have Flowers of the Disk male, and those of the Radius semale. This Order contains sourteen Genera, most of which are radiate, viz. Milleria, Silphium, Chrysogonum, Melampodium, Calendula, Arctotis, Osteospermum, Othonna, Polymnia, Eriocephalus, Filago, Micropus, Baltimora, and Hippia.

ORDER

^{*} The Corollulæ of the Centaurea, are all tubulose, but those of the Radius differ from those of the Disk, which brings it within the Definition of a radiate Flower; however Linnæus, in his Description of the Centaurea, in the Genera Plantarum, has not called the Corolla radiate, but tubulosa differmis, tubulose of different Forms.

ORDER V. POLYGAMIA SEGRE-This Order comprehends fuch GATA. P' nts as have many partial Cups contained in the common Calyx, which separate and furround the Floscula. This Order contains feven Genera, distinguished into, 1. Such as have four Flotculi in each partial Calyx; of which there are two Genera, viz. Elephantopus, and Oedera. 2. Such as have many Flosculi in each partial Calyx; of which there is only one Genus, viz. Spharanthus. 3. Such as have one Flosculus in each partial Calyx; of which there are three Genera, viz. Echinops, Gundelia, and Stoebe. 4. Such as have three Flosculi in each partial Cup, of which there is only one Genus, viz. Jungia.

ORDER VI. MONOGAMIA, comprehending such Plants as have simple Flowers. This Order contains seven Genera, viz. Strumpsia, Seriphium, Corymbium, Jasione,

Lobelia, Viola, and Impatiens.

CHAP.

CHAP. XXIII.

Of the twentieth Class, GYNANDRIA*.

THIS Class consists of such Plants as have the Stamina growing either upon the Style itself, or upon a Receptacle that stretches out into the Form of a Style, and supports both the Stamina and the Pistillum. The Orders are nine, viz.

ORDER I. DIANDRIA[†], comprehending fuch Plants as have two Stamina. The Flowers of this Order have a most singular Structure, answering to the following De-

scription.

Characters of the Order DIANDRIA, of the Class GYNANDRIA.

The Germen is always contort; the Petals are five; of which the two inner ones

* All the Flowers of this Class have a monstrous Appearance, owing to the uncommon Situation of the Parts

of Fructification.

+ This Order is a natural one, the Genera differing only in respect of the Nectarium. This Part Linnæus considers as a Mark of Distinction for these Genera, far preferable to the Root, though not received as such by former Botanists.

‡ Twisted like a Screw

ufually

usually approach and form a Galea ‡; the lower Lip of which becomes a Nectarium, and ferves also for a Pistillum and fixth Petal. The Style grows to the inner Margin of the Nectarium in such a Manner as to be with its Stigma scarce either of them distinguishable. The Filaments are always two, supporting as many Antheræ; which are narrower downwards; naked, or without Tunic, and divisable, like the Pulp of a Citrus. These last are covered by little Cells, that are open underneath, and grow to the inner Margin itself of the Nectarium. The Fruit is a Capfule, that is unilocular, trivalved, and splits in the Angles under the Carinate † Ribs. The Seeds are scobiform*, numerous, affixed to a linear Receptacle in each Valvule.

ORDER I. DIANDRIA, comprehending fuch Plants as have two Stamina, this Order contains eleven Genera, viz. Orchis, Satyrium, Ophrys, Serapias, Limodorum, Arethusa, Cypripedium, Epidendrum, Gunnera, Forstera, and Disa.

ORDER II. TRIANDRIA, comprehending fuch Plants as have three Stamina. This Order contains four Genera, viz. Sifyrin-

chium, Ferraria, Stilago, and Salacia.

[‡] Helmet. + Keel shaped.

Like Filings or Saw-duft, i. e. very small.

ORDER III. TETRANDRIA, comprehending fuch Plants as have four Stamina. Of this Order there is but one Genus, viz. Nepenthes.

ORDER IV. PENTANDRIA, comprehending fuch Plants as have five Stamina. This Order contains three Genera, viz. Paf-

fiftora, Gluta, and Ayenia.

ORDER V. HEXANDRIA, comprehending fuch Plants as have fix Stamina. This Order contains two Genera, viz. Ariftolochia, and Pistia.

ORDER VI. OCTANDRIA, comprehending fuch Plants as have eight Stamina. Of this Order there is only one

Genus, viz. Scopolia.

ORDER VII. DECANDRIA, comprehending such Plants as have ten Stamina. Of this Order there are but two Genera, viz. Helicteres, and Kleinhovia.

ORDER VIII. DODECANDRIA, comprehending fuch Plants as have twelve Stamina. This Order contains but one Genus,

viz. Cytinus.

ORDER IX. POLYANDRIA, comprehending fuch Plants as have many Stamina. This Order contains eight Genera, viz. Grewia, Xylopia, Arum, Dracontium, Calla, Pothos, Ambrofinia, and Zostera.

CHAP.

CHAP. XXIV.

Of the twenty-first Class, Monoecia.

THIS Class consists of such Plants as have no Hermaphrodite Flowers, but bear both male and female Flowers on the same Plant*. The Orders of this Class are eleven, viz.

ORDER I. MONANDRIA, comprehending such Plants as have their male Flowers furnished with one Stamen. This order contains ten Genera, viz. Zanichellia, Ceratocarpus, Cynomorium, Elaterium, Chara, Ægopricon, Artocarpus, Nipa, Casuarina, and Phyllachne.

ORDER II. DIANDRIA, comprehending fuch Plants as have their male Flowers furnished with two Stamina. This Order contains two Genera, viz. Lemna, and Anguria.

ORDER III. TRIANDRIA, comprehending fuch Plants as have their male Flowers furnished with three Stamina. This Order contains twelve Genera, viz. Omphalea, Typha, Sparganium, Zea, Coix, Tripfacum, Olypha,

^{*} These are the Androgynous Plants. See Part I. Chap. 21.

ra, Carex, Axyris, Tragia, Hernandia, and

Phyllanthus.

ORDER IV. TETRANDRIA, comprehending fuch Plants as have their male Flowers furnished with four Stamina. This Order contains nine Genera, viz. Centella, Betula, Buxus, Urtica, Morus, Cicca, Serpi= cula, Littorella, and Aucuba.

ORDER V. PENTANDRIA, comprehending fuch Plants as have the male Flowers furnished with five Stamina. This Order contains eight Genera, viz. Xanthium, Ambrosia, Parthenium, Iva, Leea, Amaranthus, Nephelium, and Clibadium.

ORDER VI. HEXANDRIA, comprehending fuch Plants as have their male Flowers furnished with six Stamina. Of this Order there are two Genera, viz. Zizania, and

Pharus.

ORDER VII. HEPTANDRIA, comprehending fuch Plants as have their male Flowers furnished with feven Stamina. Of this Order there is but one Genus, viz. Guettarda.

ORDER VIII. POLYANDRIA, comprehending fuch Plants as have their male Flowers furnished with many Stamina. This Order contains thirteen Genera, viz. Ceratophyllum, Myriophyllum, Sagittaria, Begonia, Theligonum, Poterium, Quercus, Juglans, Fagus, CarCarpinus, Corylus, Platanus, and Liqui-dambar.

ORDER IX. MONADELPHIA, comprehending such Plants as have their male Flowers furnished with one Set of united Stamina. This Order contains sisteen Genera, viz. Hura, Pinus, Cupressus, Thuja, Acalypha, Delechampia, Plukenetia, Cupania, Croton, Ricinus, Jatropha, Sterculia, Hippomane, Stillingia, and Gnetum,

ORDER X. SYNGENESIA, comprehending such Plants as have their male Flowers furnished with Stamina, of which the Antheræ are united. This Order contains six Genera, viz. Trichosanthes, Momordica, Cucumis, Cucurbita, Sicyos, and Bryonia.

ORDER XI. GYNANDRIA, comprehending such Plants as have their male Flowers surnished with Stamina that grow out of a Kind of Style, or imperfect Pistillum, the perfect one being in the semale Flower. This Order contains two Genera, viz. Andrachne, and Agyneia.

CHAP. XXV.

Of the twenty-second Class, DIOECIA.

THIS Class consists of fuch Plants as have no Hermaphrodite Flowers, but bear male and female Flowers on distinct Plants*. The Orders of this Class are fourteen, viz.

ORDER I. MONANDRIA; comprehending fuch Plants as have their male Flowers furnished with one Stamen. This Order contains only two Genera, viz. Najas, and Pandanus.

ORDER II. DIANDRIA, comprehending fuch Plants as have their male Flowers furnished with two Stamina. This Order

* There are many Plants which have male and female Flowers on distinct Plants; but which are not admitted to this Class, because this Circumstance happens to one Species only, and not to the whole Genus. Instances of this are met with in Morus, Urtica, Laurus, Croton, Rumex, Silene, Carex, Rhus, Valeriana, Rhamnus, and Cucubulus. But it is observable, that in the Plants that stand under the first Distinction, in the Order Monogynia of the Class Pentandria, which are the Asperisolia (roughleaved Plants) of Ray, and also in the Plants of the Classes Didinamia, Tetradynamia, and Diadelphia, there have not been found any Species where the Sexes are on distinct Plants: This may be accounted for from the Structure of the Flowers in those Classes.

contains

contains three Genera, viz. Vallisneria, Salix,

and Cecropia.

ORDER III TRIANDRIA, comprehending fuch Plants as have their male Flowers furnished with three Stamina. This Order contains fix Genera, viz. Empetrum, Osyris, Caturus, Excoecaria, Restio, and Maha.

ORDER IV. TETRANDRIA, comprehending such Plants as have their male Flowers furnished with four Stamina. This Order contains seven Genera, viz. Viscum, Hippopha, Myrica, Trophis, Batis, Montinia, and Brucea.

ORDER V. PENTANDRIA, comprehending such Plants as have their male Flowers furnished with five Stamina. This Order contains twelve Genera, viz. Pistacia, Zanthoxylum, Astronium, Iresine, Antidesma, Spinacia, Acnida, Cannabis, Humulus, Zanenia, Fewillea, and Canarium.

ORDER VI. HEXANDRIA, comprehending such Plants as have their male Flowers furnished with fix Stamina. This Order contains four Genera, viz. Tamus, Smilax,

Rajania, and Dioscorea.

ORDER VII. OCTANDRIA, comprehending fuch Plants as have their male Flowers furnished with eight Stamina. This

Order contains three Genera, viz. Populus,

Rhodiola, and Magaritaria.

ORDER VIII. ENNEANDRIA, comprehending such Plants as have their male Flowers furnished with nine Stamina. This Order contains two Genera, viz. Mercurialis and Hydrocharis.

ORDER IX. DECANDRIA, comprehending such Plants as have their male Flowers furnished with ten Stamina. This Order contains four Genera, viz. Carica, Kiggelaria,

Coriaria, and Schinus.

ORDER X. DODECANDRIA, comprehending such Plants as have their male Flowers furnished with twelve Stamina. This Order contains three Genera, viz. Meniformum, Datisca, and Euclea.

ORDER XI. ICOSANDRIA, comprehending such Plants as have their male Flowers furnished with many Stamina inserted into the Calyx: of this Order there is but

one Genus, viz. Flacourtia.

ORDER XII. POLYANDRIA, comprehending fuch Plants as have their male Flowers furnished with many Stamina. Of this Order there are two Genera, viz. Cliffortia, and Hedycaria.

ORDER XIII. MONADELPHIA, comprehending fuch Plants as have their male

Flowers

Flowers furnished with one Set of united Stamina. This Order contains fix Genera, viz. Taxus, Juniperus, Ephedra, Cissampelos, Napæa and Adelia.

ORDER XIV. SYNGENESIA, comprehending fuch Plants as have their male Flowers furnished with Stamina, of which the Antheræ are united. Of this Order there is

but one Genus, viz. Ruscus.

ORDER XV. GYNANDRIA, comprehending fuch Plants as have their male Flowers furnished with Stamina that grow out of a Kind of Style, or imperfect Pistillum, the perfect one being in the female Flower. Of this Order there is but one Genus, viz. Clutia.

CHAP. XXVI.

Of the twenty-third Class, POLYGAMIA.

THIS Class confists of fuch Plants as bear Hermaphrodite Flowers, and also either male or female Flowers, or both. The Orders of this Class are three, viz.

ORDER I. MONOECIA, comprehending such Plants as have the Polygamy on the same Plant. This Order contains twenty-L 2

four

four Genera, distinguished into, 1. Such as are Polygamous by male Hermaphrodites, and female Hermaphrodites; of which there is but one Genus, viz. Musa. 2. By Hermaphrodites and Males; of which there are twenty-two viz. Ophioxylon, Celtis, Veratrum, Fusanus, Andropogon, Holcus, Apluda, Ischamum, Cenchrus, Ægilops, Valantia, Parietaria, Atriplex, Brabeium, Acer, Gouania, Solandra, Terminalia, Clusia, Hermas, Spinifex, and Manisurus. 3. By Hermaphrodites, and Females; of which there is one Genus, viz. Mimosa.

ORDER II. DIOECIA, comprehending fuch Plants as have the Polygamy on two distinct Plants. This Order contains ten Genera, distinguished into, 1. Such as are Polygamous by Hermaphrodites and Females; of which there are two, viz. Fraxinus, and Gleditsia*. 2. By Hermaphrodites and Males; of which there are three, viz. Diospyrus, Nyssa, and Pisonia. 3. By Androgynous and Males; of which there are five, viz. Anthospermum, Aretopus, Panax, Chrysitrix, and

Stilbe.

ORDER III. TRIOECIA, comprehending fuch Plants as have the Polygamy on

* In Gleditsia the Hermaphrodites and Males are on the same Plant, and the Females on a distinct one.

three

there distinct Plants. This Order contains two Genera, viz. Ficus †, and Ceratonia.

+ To understand this Order, the singular Manner of the Fructification must be explained. The Fruit of the Ficus is not a Pericarpium, but a Receptacle, the interior Sides of which support the Flowers, which by this Means are inclosed within it. These Flowers in the cultivated Fig-trees are female only, but there is a Sort known by the Name of Caprificus, that has male Flowers, and another again called Erinofyce, which is androgynous, having both male and female Flowers distinct, though lodged within the same Receptacle. Here then we have the Trioccious Polygamy explained; and if the Descriptions of de la Hire may be trusted, there are Figs that contain Hermaphrodite Flowers; which give us even a fourth Habitation for the Sexes. Thus much suffices to explain the Order; but there is an Objection naturally arifing from hence to the Doctrine of the Sexes; the obviating which, will furnish the Opportunity of a necessary Remark. It will be asked, How it happens that the Fruit of our Fig-trees ripen, if the Plants are of one Sex only, and have no Assistance from the Male? The Answer is this; the Fruit is in all Cases to be distinguished from the Seed contained within it: If the Male he wanting, the Seed will not vegetate when fown, but the Fruit may nevertheless swell, and come to an Appearance of Perfection; and so it is observed to do in the Instance in Question, and in many others, especially where the Fruit is formed of one of the Parts less connected with the Seed; as Calyx, Receptacle, &c. though it is more common for it to drop off before it ripens, if not impregnated by the Male,

CHAP. XXVII.

Of the twenty-fourth Class, CRYPTO-GAMIA*.

HIS Class confists of such Plants as conceal their Fructification, having their Flowers either within the Fruit, or fo finall, as not to be perceptible to the naked Eye. The Fructification in these is also of an uncommon Structure. The Orders are four, viz.

ORDER I. FILICES, Ferns, comprehending fuch Plants as are dorfiferous †. What is known of the Fructification of these Plants, amounts only to the few Characters

following.

* The Plants of this Class are often of a dangerous

quality.

+ Bearing the Fruit on the Back of the Leaf. These have been called also Epiphyllospermous, a Greek Compound expressive of the same Circumstance; Capillary, as being esteemed good for the Hair; and Acaules, without Stems; for in these Plants, what rises out of the Ground is plainly a Leaf only; one of the Characters of a Stem or Trunk is to be alike on every Side; but in the Stalks of Ferns, there is manifestly a Front and Back, the former being flat and channelled, and the latter convex; which fhews them to be Leaves.

Cha-

Characters of the FILICES.

CALYX—A Squama growing out of the Leaf opening on one of its Sides; and under which there are pedunculate Globules; each Globule is girt with an elastic Ring, which break elastically, and sheds a Dust, which are the Seeds.

This Order contains eighteen Genera; which, not admitting of any certain Diftinction from their Fructification, have been ranged by Linnæus according to their Situation under their covers, and are as follows, viz. Cycas, Zamia, Equifetum, Onoclea, Ophiogloffum, Ofmunda, Acrosticum, Pteris, Blechnum, Hemionitis, Lonchitis, Asplenium, Polypodium, Adianthum, Trichomanes, Marsilea, Pilularia, and Isoetes.

ORDER II. MUSCI, Mosses The Character of the Plants comprehended under this Title are, Antheræ without Filaments; the female Flowers distinct, and without any Pistillum; and the Seeds, consisting only of a naked Corculum, without Cotyledon or Tunic. The Genera of this Order have been distinguished by Linnæus, according to the following Circumstance, viz. The Antheræ, with or without a Calyptra*, placed on the

* A Veil. L 4 fame Plant as the Female Floret, or on a diftinct one; and the female aggregate. or single. The Order contains eleven Genera viz. Lycopodium, Porella, Sphagnum, Phascum, Splachnum, Polytrichum, Mnium, Bryum,

Hypnum, Fontinalis, and Buxbausnia.

ORDER III. ALGÆ, Flags. The Plants comprehended under this Order have their Root, Stem, and Leaf, all in one. The Characters of the Fructification of this Order are not yet known, excepting the few Descriptions given by Michelius. The Genera are twelve, viz. Jungermannia, Targionia, Marchantia, Blasia, Riccia, Anthoceros, Lichen, Tremella, Fucus, Ulva, Conferva, and Byssis.

ORDER IV. FUNGI, Mushrooms. The Genera of this Order are given by Linnæus after the Method of Dillenius*. The Fructification being imperfectly known, no Character can be affigned for this Order, farther than the Title, which is familiar to every one. The Genera are ten, viz. Agaricus,

Boletus

^{*} Linnæus tells us, he preferred the Method of Dillenius for the Fungi to that of Michelius; because it was plain to every one; whereas that of Michelius, though that Author has thrown great Light upon this Tribe, required too nice an Inspection.

Boletus, Hydnum, Phallus, Clathrus, Helvella, Peziza, Clavaria, Lycoperdon, and Mucor.

CHAP. XXVIII.

Of the APPENDIX.

BESIDES the twenty-four Classes explained in the preceding Chapters, Linnaus has in his Genera Plantarum, given an Appendix, which in the Ordo Generum prefixed to that Work, he calls the twenty-fifth Class*. It contains only one Order, viz.

PALMÆ, comprehending such Plants as have a Spadix and Spatha. This Order contains nine Genera, viz. Chamærops, Borassus, Corypha, Cocos, Phænix, Elais, Areca, Elate, and Caryota.

^{*} Linnæus in the first Edition of his Genera Plantarum, made two Orders in his Appendix, which in the last Edition of the Systema Natura, he has reduced to one, finding, after more mature Examination, all the Plants in his second Order fell naturally under the other Classes, and Orders, to which they properly belonged.

CHAP. XXIX.

Of GENERIC Distinctions.

HAVING now gone through the Explanation of the Classes and Orders of the System, we come to the Distinctions of the Genera. These, by the Theory of the sexual System, are to be regulated by the Fructification only. The Parts of Fructification known to the earlier Botanists were few, and might be well thought insufficient for distinguishing the vegetable Productions of Nature: They therefore had Recourse to the Habit of Plants, and other Circumstances; and by this Means a great Number of Genera were established, which the new System is obliged to reject. Of these we shall give the Reader an ample List of Instances in Chapter 31.

The Fructification being admitted as the only Foundation of the generic Distinctions, all Vegetables that agree in their Parts of Fructification are to be put together under one Genus; and all such as differ in those Parts are to be divided. The characteristic Mark of each Genus is to be fixed from the Number, Figure, Proportion, and Situation

of.

of all the Parts: But as there are few Genera wherein all the Parts are constant in every one of the Species, we ought, whereever it is possible, to fix upon some one fingle Circumstance that is constant, and make it the essential Character. This in most Genera may be had: Thus the Essence of Prunella, Torenia, Euphrasia, Alyssum, and Crambe, lies in the Denticles of the Stamina; that of Curcuma, Chelone, Bignonia, and Martynia in a mutilate Stamen; the Ranunculus is distinguished by its Nectarium, which is a Pore in the Claws of its Petals; Hydrophyllum by the same Part, which in that Genus is a closed Chink in the Laciniæ of the Corolla; and Helleborus and Nigella alfo, by their tubulofe Nectaria; in Pancratium the Stamina are inferted in the Nectarium, which distinguishes it from Narcissis; in Hyoscyamus, there is a Covering to the Capfules, by which it is known from Phylalis; the Reseda has always a lateral Nectarium, but varies in its Corolla and Pistillum; the Campanula has a quinquevalved Nectarium, but is inconstant in the Corolla and Capsule; and laftly, the Iris has a Stigma of fingular Construction, but varies in the Beard of its Corolla.

There is, however, no one Part of Fructification

tification that can be relied on as a constant characteristic Mark for all Genera; it being found, that the Part which is constant in fome Genera will be inconstant in others: Thus in Carica the Flowers of the male Plant are monopetalous, and those of the female pentapetalous; in Myrica fome Species have naked Seeds, others Berries; in Fraxinus fome have a naked Flower, and others a Corolla; in Geranium fome have regular Corollæ, and others irregular; in Linum fome are pentapetalous, others tetrapetalous; in Aconitum some are tricapsular, and others quinquecapfular; and in Trifolium some are monopetalous, others polypetalous, fome monospermous, and others polyspermous.

This Inconstancy of particular Parts in many Genera has been another Source of Error amongst the earlier Botanists; who have parted many Plants from their Congeners on this Account: Of these Mistakes we shall give an ample List in Chapter 32.

When the characteristic Mark of any Genus is wanting in any particular Species, we should proceed with Caution, lest we confound Genera that should be distinguished: For want of this Caution the Erica and Andromeda had been joined, but were parted afterwards on account of the two Horns in the

the Antheræ of the Erica; the Adonis had been joined to the Ranunculus, but was parted from it again, on observing that it wanted the nectariferous Pore; and the Aloe and Agave had been blended, till it was observed that in the latter the Stamina were inserted in the Corolla, and not in the Receptacle.

When the characteristic Mark of any Genus is observed in some Species of another Genus near of Kin to it, a like caution is again necessary on the other Hand, lest we should multiply the Genera by parting Species that should stand together: Thus we find, that in Sedum, Sempervivum, Rhodiola, Crassula, Tillæa and Cotyledon, the Nectaria adhere to the Base of the Pistillum; in Epilobium and Oenothera the Calyx is tubulose; in Mespilus, Cratægus, and Sorbus, the Structure of the Flower is alike; and in both Alnus and Betula, there are three Florets on the Foliole of the Amentum*.

CHAP.

^{*} The Alnus and Betula are joined by Linnæus under the Title of Betula. The rest; of these Instances he has kept separate, notwithstanding the Doubt raised here concerning the Propriety of distinguishing them.

CHAP. XXX.

By what Parts of Fructification the Genus may with the most Certainty be determined.

Fructification is found through the feveral Species of any Genus, the more it may be relied on with Certainty as a characteristic Mark for that Genus: Thus in Hypecoum the Nectarium is constant, but not the Siliqua; the Convallaria is constant in its spotted Berry, but not in its Corolla; the Lobelia in its Corolla, but not in its Fruit; the Cassia in its Corolla, but not in its Siliqua; and the Verbena in its Calyx and Corolla, but not in its Siliqua; but not in its Siliqua; and the Verbena in its Calyx and Corolla, but not in its Stamina and Seeds.

In some Genera one Part of the Fructissication is found to be the most constant, and in others another; but there is no Part that is not liable sometimes to a Variation: Thus we find the Pericarpium variable in Impatiens, Campanula, Primula, Papaver, Cistus, Fumaria, and Arbutus; the Calyx in Nymphæa, and Cornus; the Corolla in Vaccinium, Convallaria, Andromeda, Gentiana, and Linum; and the Seeds in Ranunculus,

If

and Alisma.

the

If the Flowers agree, but the Fruits differ, the Genus ought not to be parted: Thus in those extensive Genera, the Cassia, Hedysarum, Sophora, Lavatera, Hibiscus, and Mimosa, so great a number of Species have been ranged under the same Genus, on Account of the Conformity in the Flowers, though there is a Variation in the Fruit.

That the Figure of the Flowers is more certain than that of the Fruit, appears from many Examples; as from Campanula, Primula, Antirrhinum, Alisma, Hibiscus, Cistus, &c. but the Proportion of the Parts is sub-

ject to very great Variation.

The Number of the Parts is more liable to Variation than their Figure, and is found fometimes to vary even upon the same Plant; as in Ruta, Chrysosplenium, Monotropa, Tetragonia, Euonymus, Philadelphus, and Adoxa, in the Flowers of all which the Number of the Parts varies from five to four: In these doubtful Cases, the natural Number must be collected from the primary Flower; but in the Variations of the Number of the Parts, there is a proportional Affinity worth remarking. In Flowers the Stamina usually vary from ten to eight, and from five to four; the Corolla and Calyx from five to four, and the whole Flower from four to three; and

the Fruit also usually varies from five to three, and from five to four.

The Situation of the Parts is the most constant, very rarely varying in the same

Genus.

The Regularity of the Petals is not so much to be depended on as some former Botanists have * thought; for we see in Geranium the European Species have regular Corollæ, but the African ones irregular.

The Nectarium Nature has made of the greatest Consequence. This Part, which had not even a Name till Linnæus had diftinguished it, is a decisive Mark in all the following Genera, viz. in Orchis, Satyrium, Monotropa, Fumaria, Viola, Malpighia, Bannisteria, Adenanthera, Commelina, Laurus, Helxine, Dictamnus, Zygophyllum, Swertia, Lilium, Fritillaria, Hydrophyllum, Ranunculus, Hermannia, Berberis, Staphylea, Passifiora, Narcissius, Pancratium, Mirabilis, Nerium, Stapelia, Asclepias, Diosma, Campanula, Plumbago, Hyacinthus, Rhododendrum, Cheiranthus, Sinapis, Kiggelaria, Clutia, Aquilegia, Nigella, Aconitum, Parnassia, Epimedium, Theobroma, Reseda, Grewia, Helleborus, Isopyrum, Tropæolum, and Impatiens.

^{*} Rivinus in particular.

The Stamina and Calyx, being less subject to Luxuriancy, are far more certain than the Petals.

The Corolla varies as to its Figure in many Genera; as in Vaccinium, Pyrola, Andromeda, Nicotiana, Menyanthes, Primula, Veronica, Gentiana, Hyacinthus, Scabiosa, and Narcissius. It varies also as to Number, being in Ranunculus, Pentapetalous in fome Species, and Polypetalous in others; in Helleborus also, Pentapetalous and Polypetalous; in Statice, Pentapetalous and Monopetalous; and in Fumaria, Dipetalous and Tetrapetalous: and the Number is also sometimes variable in the fame Species; as is observed in Carica, and Tatropia.

The Structure of the Pericarpium was formerly thought to be of great Confequence in determining the Genera; but there are Examples without Number that demonstrate the contrary. There are a great many Genera that have been established on Distinctions in the Pericarpium, and that are now rejected; of these we shall give an ample

List in Chap. 33.

The Characters of luxuriant Flowers, whether Eunuchs * or Mutilate, cannot be

allowed

Eunuchs are such as have lost the Stamina, which is the Case of full Flowers. Mutilate are those that are incomplete, wanting the Corolla or Perianthium.

allowed any place in determining the Genera; for in full Flowers no Number of Petals can be affigned, and the Stamina are genevally wanting, the Number of which makes a Part of the Generic Character; and in mutilate Flowers, as in some Species of Campanula, Ipomoea, and Ruellia, the Corolla would be excluded from the Description, contrary to the Nature of the other Species of the Genus. But as the Calyx * in full Flowers is fcarce ever altered, it may detect the Genus; and the lowest Series of Petals in Polypetalous Corollæ remaining the fame in respect to Number, the Genus may also be often known by that Character; as in Papaver, Nigella, and Rosa.

CHAP.

^{*} Some Systematists have distributed the whole Body of Vegetables by the Differences of the Calyx; and in such Systems the sull Flowers, as our Author observes, are more easily referred to their proper Genus than in his own, the Calyx not being subject to Luxuriancy: Instances of this are in Hepatica, Ranunculus, and Alcea.

CHAP. XXXI.

Of the Genera, rejected by the sexual System, as not established on the Fructification.

WE have observed, in Chap. 29. that the earlier Botanists had admitted many Genera, on Distinctions that were not grounded on the Parts of Fructification, but on the Habit of Plants, and on other Circumstances which are now considered as specific Distinctions only: Of these we shall here give an ample List. The Reader will here take Notice, that under the first Column are ranged the Genera that are abolished; and over against them, in the Second, the Genus to which they are severally to be referred *, with the specific Difference that had given Occasion to the false Distinction.

* The Names and the generic Arrangement of Vegetables having undergone many Alterations during the Progress of the Improvements made in the Science, the new Genera, to which these false ones are referred in this and the following Lists, do not all stand under the Titles given to them in the later Editions of the Works of Linneus. Where this happens, we shall explain it by a Note, chusing that Method rather than to alter the Lists themselves, which we have taken from the Philosophia Botanica.

Limodorum

New Genera.

Orchis, with a fibrose Root. Bistorta Polygonum, with a fleshy Root. Brassica, with a gibbose Root. Rapa Sifarum Sium, with a tuberofe Root. Iris, with a tuberose Root. Hermodaetylus Iris, with a double Bulb, one over the Sifyrinchium other. Xiphium Iris, with a tunicated Bulb. Lilio Fritillaria Fritillaria, with a squamose Bulb. Cornus, with an herbaceous Stem. Mesomora Sedum, with an erect Stem. Anacamseros Psyllium *Plantago*, with a branching Stem. Bellis Leucan-Bellis, with a leafy Stem. themum PilofellaHieracium, with a naked Stem. Quercus, with a fungous Bark. Suber Abies*, with fasciculate Leaves. Larix Genista, with jointed Leaves. Genistella Alfinastrum +, with Leaves not starry. Potamopithys Trifolium, with digitate Leaves. Lupinaster

Clymcnum Muscoides

Dracunculus

Trichomancs

Lentiscus

Faba Cytisogenisia Colocasia Cirlium Coronopus Coronopus Ilex

Asplenium, with pinnate Leaves. Lathyrus, with pinnate Leaves. Jungermannia, with Leaves many times imbricate. Tcrebinthus ‡, with no odd foliole to the

Arum, with pedate Leaves.

Leaves.

Vicia, with Leaves that have no Cirrhus. Spartium, with Leaves simple and triple. Arum, with Leaves not Ear-shaped. Carduus, with Leaves without Thorns. Cochlearia, with a pinnatifid Leaf. Plantago, with dentate Leaves. Quercus, with denticulate Leaves.

* Now Pinus. + Now Elatine. 1 Now Pistacia.

NEW GENERA.

Scorzoneroides Scorzonera, with dentate Leaves. Cucurbita, with multifid Leaves. Anguria Malva, with multifid Leaves. Alcea* Millefolium Ptarmica, with Leaves minutely divided. Ligusticum, with a Cicuta Leaf. Cicutaria Juniperus, with a Cypress Leaf. Cedrus Ranunculus, with capillary Leaves. Ranunculoides Hedyfarum, with fimple Leaves. Alhagi Lathyrus, with simple Leaves. Nissolia Marsilea Jungermannia, with simple Leaves, Tanacetum, with undivided Leaves. Balfamita Allium, with fiftulous Leaves. Cepa { Lathyrus, with no Leaves but Stipulæ only. Aphaca Mirnosa Acacia †, with fensitive Leaves. Oxyoides Oxalis, with fenfitive winged Leaves. Aurantium Citrus, with cordate Petioles 1. Melissa, with branching Peduncles ||. Calamintha Cotinus Rhufs, with woolly Peduncles. Virga Sanguinea Cornus, with a naked Cyme. Corona Imperia- { Fritillaria, with a Head of Leaves on the Racemus. the Racemus. Lavandula, with Bracter on the Spike, Stachas Carex Cyperoides §, with androgynous Spikes. Toucrium, with sparsed Leaves. Cham epithys Thymus, with sparsed Leaves. Acinos

* Alcea, is still the Title of a Genus, though of a different one, being applied to the Malva Rosea, or Hollyhock.

Statice, with sparsed Leaves.

† Mimosa is now the Title of the whole Genus, including the Acacias.

I Footstalks of the Leaves.

Limonium

|| Footstalks of the Flowers.

§ Caren is now the Title of the Genus.
M 3

OLD GENERA. NEW GENERA.

Chomædrys	Teucrium, with verticillate Leaves.
Thymbra	- Satureia, with sparsed Leaves.
Volubilis	Ipomoea, with Flowers in Heads.
Polium	Teucrium, with cymose Flowers.
Castanea	Fagus, with Flowers in Spikes.
Cajianea	J Polygonum, with spiked Flowers, and
Fagopyrum	7 6 6 40
	(Origanum, with rounder Spikes of
Majorana	Soriganum, with rounder Spikes of Flowers.
Malus	Pyrus, with a distinct Face.
Cydonia	Pyrus, with a distinct Face.
Ármeniaca	Prunus, with a distinct Face.
Cerasus	Prunus, with a distinct Face.
Lauro-Cerasus	Prunus, with a distinct Face.
Limon	Citrus, with a distinct Face.
Napus	Braffica, with a distinct Face.
Absinthium	Artemisia, with the outward Face distinct.
Abrotanum	Artemisia, with the outward Face distinct.
Bezlidiastrum	Doronicum, with a distinct Habit.
	\(\textit{Tithymalus **, with the Habit not branch-} \)
Euphorbia	{ ing.
Usnea	Lichen, with the Habit capillary.
Coralloides	Lichen, with the Habit caulescent.
	S Coralloides +, with the Habit not branch-
Clavaria	ing.
Tuber	Lycoperdon, with a more folid Substance.
	S Elvela, with a Substance smooth on both
Fungoides	Sides.
Lycoperdoides	Lycoperdon, with a cellular Substance.
Amanita -	Agaricus, with the Pileus on a Stipes.
י ע אר	Boletus, with a Volva at the Base of the
Phallus	Stipes.
Phalloboletus	Boletus, with a Pileus not closed in the
	Sides.
70.7 4	Boletus, with Pores not to be distin-
Polyporus	guished.
* Euthorhia	is now the Title of he Genus.

^{**} Euphorbia is now the Title of + Now Clavaria.

NEW GENERA.

Erinaceus Thysselinum Moly Acetosa Colocynthis Ulex, thick-fet with Spines.
Selinum, with a milky Juice.
Allium, with a fweet Scent.
Lapathum*, with an acid Taste.
Anguria †, with a bitter Fruit.

* Now Rumex. † Now Gucumis.

CHAP. XXXII.

Of the GENERA rejected by the System, as grounded on the Variations of some Parts only of the Fructification.

IT has been observed, in Chap. 29. that there are few Genera, wherein all the Parts of Fructification are constant in every Species; and that this Inconstancy of particular Parts had been another Source of Error in former Botanists: We shall here give a List of these Mistakes referring the old Genera to the new Titles, in the same Manner as we did those in the List given in the preceding Chapter.

OLD GENERA.

NEW GENERA.

Arifarum Afterifcus Silyhum Arum, with a hooded Spatha.

Buphthalmum, with a starry leafy Calyx.

Carduus, with a thorny Calyx.

M 4

Moldaviza

NEW GENERA.

Moldavica	Dracocephalum, with the Calyx gibbous
	and bilabiate.
Tithymaloides -	Euphorbia, with the Calyx gibbous and irregular.
Trionum	Hibiscus, with an inflate Calyx.
Ficaria	Ranunculus, with a triphyllous Calyx and polypetalous.
Iva	Teucrium, with a gibbous Calyx.
Lunularia	Marchantia, with the common Calyx quadrifid.
Leucanthemum	Chrysanthemum, with the Squamæ of the Calyx narrow.
Cardiaca	Leonurus*, with a quinquedentate Calyx.
Paronychia ?	Herniaria, with the Leaves of the Calyx hooded.
Pseudo-Dietam-	Merrubium, with a Funnel-shaped Ca-
nus	L lyx.
Anemone-Ra-	Anemonoides +, with a pentapetalous Co-
nunculus-	rolla.
Linaria	Antirrhinum, with a tailed Corolla.
Valerianoides	Valeriana, with a tailed Corolla.
Bromelia	Ananas ‡, with a tripetalous Corolla.
O puntia	Melocastus with a polypetalous Corolla.
Glacium	Chelidonium, with a rofaceous Corolla.
Polygonatum {	Lil. Convallium S, with a tubulose Co-rolla.

* The scarlet Leonurus of the Cape is removed to the Genus Phlomis, on account of its wanting the shining Points on the Antheræ; but the Title Leonurus is nevertheless applied to the Cardiaca.

- + Now Anemone.
- ‡ Bromelia is now the Title of the Genus.
- || Now Castus.
- § Now Convallaria,

Contaurium

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OLD GENERA.

New Genera.

	us Gentiana, with a funnel-shaped Corolls.
Liliastrum -	<i>Hemerocallis</i> , with a hexapetalous Co-
Borbonia	Laurus, with a pentaphylloideous Calyx.
Benjoe	Laurus, with an octofid Corolla.
Aricula Ursi	§ Primula, with an hypocrateriform Co-
Triphylloides	Trifolium, with a monopetalous Corolla.
Oxycôccus	Vaccirium, with a tetrapetalous Corolla.
Bonarota	Veronica, with a tubulose Corolla.
Zannonia	Com relina, with a tripetalous Corolla.
Borraginoides	{ Borrago, with an infundibuliform Co-
Horminum	Salvia, with a galeate Galea, and a con-
Sclarea	Salvia, with a falcate Galea, and a com-
Phelypæa	§ Clandestina*, with a Galca of the Corolla Bifid.
Murucuja	Passiflora, with an undivided Nectarium.
Sherardia +	Verbena, with two Stamina.
Stellaris	{ Ornithogalum, with Stamina that are not flat.
Porrum	Allium, with trifid Stamina.
Dodonæa	Ilex, with a trifid Flower.
Hypocistis	Afarum, with a quadrifid Flower.
Radiola	Linum, with a quadrifid Frower.
Unifolium	Convallaria, with a quadrifid Flower.
Bernhardia	Crotor, with dioecious Flowers.
Petasit s	Tufflago, with fasciculate Flowers.
Ananthocyclus	Cotula, with flosculose Flowers.
Ceratocephalus Deci-	Bidens, with radiate Flowers.
Doria Medium	Solidago, with few Florets in the Radius.
1vieatum	Campanula, with Fruit quinqueiscular.

^{*} Now Lathraa.

⁺ The Title Shevardia is still in Use, but is applied to another Genus.

NEW GENERA.

Speculum Veneris Campanula, with filiquose Fruit.
Coriucopioides Valeriana, with an irregular Flower.
Limonioides Statice, with a monopetalous Flower.
Viscaria Silene, with a quinquelocular Fruit.
Tetragonolobus Lotus, with an angular Fruit.

CHAP. XXXIII.

Of the GENERA, rejected by the System, as grounded on a Disserence in the Fruit only.

IT has been observed, in Chap. 30, that a great many Genera had been established on Account of Differences in the Pericarpium, but that they have since been abolished: Of these the following is a List; in which, as in the preceding Lists, it will appear where they are now ranged.

OLD GENERA.

New Genera.

Clandestina Trollius † Sesamoides Lycopersicon Ascyrum ‡ Anblatum*, with an elastic Fruit.

Helleborus, with a multicapsular Fruit.

Reseda, with a multicapsular Fruit.

Solanum, with a multicapsular Fruit.

Hypericum, with a quinquecapsular Fruit.

Dortmanna

^{*} Now Lathraa.

⁺ Trollius and Helleborus are parted again.

[†] The Title Afgrum is still in Use for another Genus.

NEW GENERA.

Dortmanna Helianthemum Androjæmum PaviaAsarina

Elatine

Nelumbo

Raphanistrum Cakile Ulmaria Persica Caffia Inga Malvaviscus Lobelia Pereskia Sabina Bihai Alaternus Frangula

Dracunculus

Onobrychis

Rapuntium *, with a bilocular Fruit. Ciftus, with an unilocular Fruit. Hypericum, with an unilocular Fruit. Esculus, with an unilocular Fruit. Antirrhinum, with multivalvular Fruit. Antirrhinum, with the Fruit burffing on the Side the Side. Nymphæa, with the Fruit perforate at the

top. Raphanus, with articulate Fruit.

Bunias, with articulate Fruit. Filipendula +, with twisted Fruit. Amygdalus, with a fucculent Fruit. Senna t, with a succulent Fruit. Acacia ||, with a succulent Fruit. Hibifcus, with a succulent Fruit. Rapuntium §, with a dupraceous Fruit. Castus, with a leafy Fruit.

Juniperus, with a warted Fruit. Musa, with a trispermous Fruit. Rhamnus, with a trispermous Fruit. Rhamnus, with a dispermous Fruit.

Hamanthus, with monoipermous Fruit. Hedyfarum, with monospermous Fruit.

* Now Lobelia. + Now Spiraa.

‡ Cassia is now the Title of the Genus, which includes the Cassia Fistula, and many other Species; but the Cassia Lignaa of Sumatra, whose Bark so nearly refembles that of the Cinnamomum, is a Laurus, as is the Cinnamomum also; and the two Plants are by some supposed to be the same.

|| Now Mimofa.

§ Lobelia is now the Title of the Genus.

Malvinda

NEW GENERA.

Malvinda	· Abutilon*, with a Fruit not inflate.
Cysticapnos	Fumaria, with an inflate Fruit.
Impatiens	
Guazuma	Balfamina +, with an attenuate Fruit.
	Cacao ‡, with a reticulate Fruit.
Paliurus	Rhamnus, with a shield-shaped Fruit.
Alisma	{ Damasonium , with a Fruit not corniculate.
Securidaca §	Coronilla, with Faulchion-shaped Fruit.
Melo	Cucumis, with an ovate Fruit.
Melopepo	Cucurbita, with a fulcate Fruit.
Rapistrum	Crambe, with a Fruit that does not open.
Radicula	Sifymbrium, with a filiculose Fruit.
Blattaria	
Diamaria	Verbascum, with a rounder Fruit.
Persea	{ Laurus, with a Fruit that is berried on every Side.
Cururi ,	Seriana ++, with a Fruit that bears Seeds at the Top.
	(Thighi with a Fruit that has no Man
Bursa Pāstoris	{ Thlaspi, with a Fruit that has no Mar-
Nasturtium	Lepidium, with a Margin to the Fruit.
Valerianella	Valeriana, with a Fruit not pappose.
Anemonoides	Anemone, with naked Seeds.
Eupatoriopha-	Carrier 1
lacrum	{ Verbesina, with naked Seeds.
Leontodontoides	Hyoseris, with Seeds almost naked.
1. 7. 1.	(Carthamus, with an obsolete Crown to
Atractylis ‡‡	{ the Seeds,

^{*} Now Sida.

Carthamoides

⁺ Impatiens is now the Title of the Genus.

[‡] Now Theobroma.

^{||} Alisma is now the Title of the Genus.

[§] Securidaca is still a Title, but of a different Genus.

^{††} Now Paullinia.

^{‡‡} Atractylis is still a Title, but applied to another Genus.

NEW GENERA.

Carthamoides
Zazintha
Alypum
Xeranthemoides
Astercropterus
Acarna
Achyrophorus
Carlinoides
Viticella

Nymphoides

Karatas
Tragopogonoides
Tinus
Opulus
Perficaria
Emerus
Foeniculum
Lens
Pepo
Falcaria

Cerinthoides

Blæria

Carthamus, with pappose Seeds.

Lapfana, with pappose Seeds.

Globularia, with pappose Seeds.

Xeranthemum, with a feathered Pappus.

After, with a feathered Pappus.

Cnicus, with a feathered Pappus.

Hypochæris with a feathered Pappus.

Carlina, with an obsolete Pappus.

Clematis, with tailed Seeds.

Menyanthes, with an Arillus to the Seed.

Bromelia, with no Arillus to the Seed. Tragopogon, with bent Seeds. Viburnum, with Pear-shaped Seeds. Viburnum, with Heart-shaped Seeds. Polygonum, with triangular Seeds. Coronilla, with cylindrical Seeds. Anethum, with thick Seeds. Cicer, with Lens-shaped Seeds. Cueurbita, with Seeds not emarginate. Sium, with slender Seeds. Cerinthe, with four distinct Seeds.

Sherardia, with echinate Seeds.

INTRODUCTION

TO

B O T A N Y.

PART THE THIRD.

CHAP. I.

Of VEGETABLES, and their Parts.

EGETABLES are divisible into the feven Families or Tribes following *, viz.

* This natural Division of Vegetables into several Tribes being given in the *Philosophia Botanica*, we were unwilling to omit it; but it is necessary to give the Reader a Caution, less the consound it with the artificial or systematic Distribution of Plants explained in the second Part of this Work; the Division here given is drawn from a Consideration of the whole Vegetable; whereas the systematic or artificial Distribution into twenty-four Classes is grounded on the Fructification only.

I. FUNGI,

1. FUNGI, Mushrooms.

2. ALGÆ, Flags; whose Root, Leaf, and

Stem are all one.

3. MUSCI, Mosses; whose Antheræ have no Filaments, and are placed at a Distance from the female Flower, and whose Seeds also want their proper Tunic and Cotyledons.

4. FILICES, Ferns; whose Fructification

is on the Back of the Frondes*.

5. GRAMINA, Graffes †; which have fimple Leaves, a jointed Culm or Stem, a glu-

mofe Calyx, and a fingle Seed.

6. PALMÆ, Palms; which have simple Stems that are Frondose; at the Summit, and have their Fructifications on a Spadix issuing from a Spatha.

7. PLANTS, which include all that do not enter into any of the other Divisions.

These are,

Herbaceous, when they die down to the Root every Year; for in the perennial Kinds, the Buds are all produced on the Root below the Surface of the Ground.

* Leaves of the Ferns and Palms fo called; fee the Explanation of the Term Frons, in Chap. 4.

† This Tribe includes the various Sorts of Corn as well as the Grasses.

‡ See the Term Frons, explained in Chap. 4.

Shrubs,

Shrubs, when their Stems come up without Buds*.

Trees, when their Stems come up with Buds.

Vegetables are each primarily divisible into, 1. The Root. 2. The Herb or Plant itself. 3. The Fructification. Of these the last has been already treated of in the first Book: The two others, upon which the specific Differences of Vegetables more immediately depend, come now under Consideration, and will be the Subject Matter of the ensuing Chapters †.

- * Nature has put no Limits between a Tree and a Shrub, which is only a Vulgar Diffinction. This Linzeus acknowledges; and argues, that his own Diffinction though he thinks it the best, is nevertheless exceptionable; inasmuch as there are seldom any Buds upon the large Trees in India; all which must therefore by this Definition, notwithstanding their great Irlight, he ranked with Shrubs.
- It may not be improper here to obviate an Objection that may be made to the Method purfued in this Work. It may be asked, if the Matter or this third l'art would not have flood more properly in the first. In answer to this it is admitted, that the Order of Nature would thereby have been more directly followed: But the Defigir of this Work was not formuch to follow the Order of Nature, as to explain the bystem of Lineaus; and as and Classes, Orders, and G new which come first in the System are grounded on the Frush seation, the Engineering with that Part of the Vegetable was indispensably needstary.

CHAP.

4

CHAP II.

Of Roots.

THE ROOT (whose Office is to draw up Nourishment, and which also produces the Herb with its Fructification) consists of two Parts, viz. Caudex, the Stock or Body of the Root; and Radicula, the Radicle or little Root.

CAUDEX, the Body of the Root both afcends and defcends.

The afcending Caudex raifes itself gradually above Ground serving often as a Trunk, and produces the Herb or Plant *.

The descending Caudex strikes gradually downward into the Ground, and puts forth Radicles. It has been distinguished, according to its various Structure, into

Perpendicular, when it runs directly down-wards.

Horizontal, when it extends itself transversly under the Earth.

* Linnæus infers from hence, that all Trees and Shrubs are to be confidered as Roots above Ground; and that this is the Reason that Trees, when inverted, put forth Leaves from the descending Stem, and Roots from the ascending.

N

Simple,

Simple, when it has no Subdivisions.

Ramose, branching; when it is divided into lateral Branches.

Fusiform, Spindle-shaped; when it is oblong, thick and tapering, as in Daucus and Pastinaca.

Tuberose, knobbed; when it consists of roundish Bodies collected into a Fascicle or Bunch; as in Pæonia, Hemerocallis, Helianthus, Solanum and Filipendula.

Repent, creeping; when it runs out to a Distance, and puts forth Radicles from Space to Space.

Fibrose, when it consists only of sibrose Radicles.

Pramorse, bitten off; when the lower Part is truncate, and the Termination not tapering; as in Scabiosa, Plantago, and Valeriana.

RADICULA, the Radicle, is the fibrose Part of the Root, which terminates the descending Caudex, and enables the Root to draw Nourishment for the Support of the Vegetable.

C H A P III.

Of the HERB.

THE HERB is a Part of the Vegetable arising from the Root, and terminated by the Fructification. It compre-

hends,

1. The TRUNK, which ferves to multiply the Herb, and leads immediately from the Root to the Fructification. It is cloathed with the Leaves, and terminated by the Fructification. See Chap. 4.

2. The LEAVES, whose Office is to transpire and attract, like the Lungs in Animals, and to afford Shade. See Chap. 5,

6, 7.

3. The FULCRA, Props; which ferve as Stays to strengthen the Plant; but may however be taken off without destroying it.

See Chap. 8.

4. The HYBERNACULA, Winterings*; each of which is a Compendium of the Herb upon its Root before it begins to grow. See Chap. 9.

^{*} These are the Bulbs and Buds.

CHAP. IV.

Of the TRUNK

RUNCUS, the Trunk, is that which produces the Leaves and Fructification: It is of feven Kinds, viz. Caulis, Culmus, Scapus, Pedunculus, Petiolus, Frons, and Stipes.

1. CAULIS, a Stem, is the proper Trunk of the Herb, and ferves to elevate the Leaves and Fructification: it is either Simple or

Compound.

SIMPLE Stems are fuch as proceed in a continued Series towards their Summits: And these may be, integri, entire; or ramose, branchy.

Integri, entire; when they are most simple,

having scarce any Branches. These may be, Nudi, naked; when they are destitute of Leaves; as in Euphorbia, Cactus, Stapelia, Ephedra, and Cuscuta.

Foliate, leafy; when they are furnished

with Leaves.

Flexuose, bending different Ways, when the Direction of the Stem changes at every Joint; as in Ptelea.

Volubiles, twining; when they ascend spirally rally by the Branch of some other Plant: These wind either to the left, according to the Motion of the Sun (as it is commonly phrased), as in *Humulus*, *Helxine*, *Lonicera*, and *Tamus*; or to the right, contrary to the Sun's Motion; as in *Convolvulus*, *Basella*, *Phaseolus*, *Cynanche*, *Euphorbia*, and *Eupatorium*.

Reclinate, reclined; when they bend in an Arch towards the Earth.

Procumbent, lying upon the Ground; when their Direction is horizontal.

Repent, creeping; when by lying upon the Ground they put forth Roots at certain Intervals; as in Hedera and Bignonia.

Sarmentose*; when they are Repent and

Subnude †.

Parafitic ‡; when they grow not out of the Ground, but on some other Plant.

Teretes, round; when they are Cylindric.

Ancipites, double-edged; when they have two opposite Angles; and also Digonus, Trigonus, Tetragonus, Pentagonus, Polygonus, having two, three, four, five, or many Angles, which are all Species of Ancipites: also,

+ Almost naked or bare of Leaves.

^{*} From Sarmentum, a long Shoot, such as those of a Vine.

[‡] Supporting themselves on others like Parasites.

Triquetrous, Three-square; when they have

three plane Sides: and,

Triangular, Quadrangular, Quinquangular, Multangular; when they have three, four, five, or many Sides or Angles.

Sulcate, furrowed; when they are cut in with broad and deep Grooves or Channels.

Striate, streaked; when they are marked with very thin hollow Lines.

Glabri, smooth; when they have a smooth

Surface,

Villose, hairy or shaggy; when there is a Down of soft Hairs upon them.

Scabrous, rough; when they are covered

with little projecting Points.

Hispid*; when they are covered with stiff Bristles.

Ramose, branchy; when they are furnished with lateral Branches: And these are,

Ascending; when the Branches incline

upwards.

Diffuse; when the Branches are spreading. Distict, in two Rows; when the Branches are produced in a horizontal Situation.

Brachiate, having Arms; when the

Branches

^{*} The Word expresses a greater Degree of Rough-

Branches are opposite, and each Pair is croffed by the Pair next above or below it.

Ramosissimi, very branchy; when the

Branches are many, and without Order.

Fulcrate, propt; when the Branches de-

scend to the Root; as in Ficus.

Proliferous; when they fend forth Branches only from the Centre of the Apex; as in Pinus.

The rest as in entire Stems.

COMPOUND Stems, are fuch as are fubdivided into Ramuli, small Branches, and diminish as they ascend. These are either,

Dichotomus, forked; when the Division is

always in two Parts.

Subdivided; when they are divided into Branches irregularly or without Order: or,

Articulate, jointed; when they are distinguished from Space to Space by Knots or

Joints; as in Piper.

or Trunk of a Grass, and serves to elevate and support both the Leaves and the Fructification: It admits of most of the Distinctions already given for a Caulis or Stem; besides which it may be either,

Enodis, without Knots; when it is con-

tinuous, and not intercepted by Joints.

N 4 Arti-

Articulate, jointed; when it is connected by various Joints.

Squamose, scaly; when it is covered with

imbricate Scales.

3. SCAPUS, a Stalk, is an universal Trunk, raising the Fructification but not the Leaves; as in Narcissus, Pyrola, Convallaria, and Hyacinthus.

4. A PEDUNCLE, or Footstalk of a Flower, is a partial Trunk; raising the Fruc-

tification but not the Leaves.

Pedicellus, is a partial Peduncle.

The Determination of Peduncles respects Place and Manner.

Determination in respect to *Place*, shews where the Base of the Peduncle is inserted into the Plant: And in this respect Peduncles are,

Radical, belonging to the Root; when they

come out immediately from the Root.

Cauline, belonging to the Stem; when they are placed on the Stem.

Rameous, belonging to the Branches; when

they come out upon the Branches.

Axillary*, coming out from the Wings; that is, either between the Leaf and the Stem, or between the Branch and the Stem.

Terminal, when they terminate the Branches or Stem.

Solitary, when there comes out but one from the fame Place.

Sparsed, scattered; when they are numerous, and come out without Order.

Determination in respect to Manner, shews how the Flowers are born and connected on the Summits of the Peduncles: And in this Respect Peduncles have the following Variations.

Uniflorous, Biflorous, Triflorous, or Multiflorous Peduncles, are fuch as bear one, two, three, or many Flowers, according to the Number of the Fructifications on a fingle Peduncle.

Fasciculus, a Bunch, is a Collection of Flowers that are erect, parallel, forming a flat or even Surface, and close to one another; as in Dianthus barbatus †.

Capitulum, a little Head, is composed of a Number of Flowers collected almost into a

globular Form; as in Gomphræna.

Spica, a Spike, has fessile Flowers that are alternate and dispersed about a common Peduncle that is simple. It is called Spica secunda, a single-rowed Spike, when the Flowers

are all turned one Way: And Spica disticha, a double-rowed Spike, when the Flowers stand

two Ways.

A Corymbus*, is a Kind of Spike, the Flowers of which have each its proper Pedicellus †, or Partial Footstalk, raised to a proportionable Height; as in Spiraa opulifolia, and Ledum.

A Panicle, is a Fructification dispersed on Peduncles variously subdivided. It is a Diffuse Panicle, when the Pedicelli are divaricate, spreading asunder; and a Coarctate or confined one, when they stand close to each other.

A Thrysus, is a Panicle contracted into an ovate Form; as in Syringa, and Petasites.

A Racemus‡ confifts of a Peduncle that has fhort lateral Branches; as in Vitis and Ribes.

Verticillus, a Whorl, expresses a Number

* Corymbus, in its ancient and proper Signification, meant a Bunch of Ivy Berries: but is now used as a botanical Term, for all Fructifications that are produced in the same Manner.

+ In the Philosophia Botanica, it is not Pedicellus, but Petiolus; which seems to be a Mistake, this Term being

applied to Leaves only.

† Racemus, anciently fignified a Bunch of Grapes.

of Flowers that are fublesfile *, and are pro-

duced in Rings round the Stems.

5. A PETIOLE, or Footstalk of a Leaf, is a Species of Trunk that fastens the Leaves, but not the Fructification; which Circumstance distinguishes it from a Peduncle, which is the Footstalk of a Flower, as has been explained above. There are some Cases where the Fructification and Leaves are born on the same Footstalks: as in Turnera and Hibiscus; but these Instances are very rare.

FRONS†, is a Species of Trunk composed of a Branch and Leaf blended together; and is frequently united with the Fructification; it belongs properly to the

Palms and Filices.

7. STIPES‡, is used to express the Base or Trunk of a Frons, and is applied only to the Palms, Filices, and Fungi.

* With no Foot-stalks, or with very short ones.

+ There is no Expression answerable to this Term in

our Language. See the Note at Page 67.

† The Word in its proper Signification means a Trunk or Stock of any Plant. But the Sense in which the Term is received in Botany is as here explained: It is used also to express the Thread or fine Trunk that supports the Pappus in downy Seeds. See Part I. Chap. 7.

CHAP. V.

Of SIMPLE Leaves.

EAVES are to be considered in three Respects, viz. 1. as Simple. 2. Compound. 3. Determinate. We shall in this Chapter treat only of the Simple.

SIMPLE Leaves are fuch as have only a fingle Leaf on a Petiole. They differ in respect to Circumscription, Angles, Sinus, Apices, Margin, Superficies, and Substance.

CIRCUMSCRIPTION confiders the Form of the Circumference of Leaves where there are no Angles or Sinuations: In which respect Leaves are,

Orbiculate, round; when the longitudinal and transverse Diameters are equal, and the Circumference circular.

Subrotund, roundish; when the Figure is nearly orbiculate.

Ovate, Egg-shaped; when the longitudinal Diameter exceeds the transverse; and the Base is circumscribed with the Segment of a Circle, but the Apex is narrower.

Oval, or Eliptic; when the longitudinal Diameter exceeds the transverse, and the

Circum-

Circumscription of both upper and lower Extremity is narrower than the Segment of a Circle.

Parabolic, in the Form of a Parabola*; when the longitudinal Diameter exceeds the transverse, and the Figure contracting from the Base upwards becomes Semiovate, half-Egg-shaped.

Spatulate, refembling a Spatula †; when the Figure is roundish, but lengthened out by the Addition of a linear Base that is nar-

rower.

Cuneiform, Wedge-shaped; when the longitudinal Diameter exceeds the transverse, and the Figure gradually contracts downwards.

Oblong, when the longitudinal Diameter is twice, thrice, &c. the Length of the transverse, and the Circumscription of each of the Extremities is narrower than the Segment of a Circle.

ANGLES are the prominent Parts of an horizontal Leaf. In respect to these, a Leaf is,

Lanceolate, Spear-shaped; when the Figure is oblong, narrowing gradually at each End towards the Extremity.

5

^{*} A geometric Curve fo called. + A Surgeon's Instrument so called.

Linear; when it is every where of the fame Breadth, though fometimes narrowing at the Extremities only.

Acerose, chaffy; when it is linear and perfishing; as in Pinus, Abies, Juniperus and

Taxus.

Subulate, Awl-shaped; when it is linear below, but gradually contracting towards the Top.

Triangular, three-cornered; when the Disk is surrounded by three prominent Angles.

Quadrangular, Quinquangular, &c. four-cornered, five cornered, &c. when four or five

prominent Angles lie round the Disk.

Deltoid, shaped like a Delta*; when the Figure is Rhombus; that is, having four Angles, of which the two lateral ones are less distant from the Centre than those at the Extremities.

Rotund, round; when it has no Angles.

SINUS, a Hollow, is a Term used to express those Openings or Cavities in Leaves which distinguish them into Parts: In respect to these, Leaves are said to be,

Reniform, kidney-shaped; when they are

roundiff

^{*} A. Greek Letter so called. The Figure of the Delta is a Triangle, which does not exactly answer to the Character here given of a Deltoid Leaf.

roundish, and hollowed at the Base, without

any Angles.

Cordiform, Heart-shaped; when they are ovate, and hollowed at the Base, and the hinder or lower Part has no Angles.

Lunulate, Moon-shaped; when they are round, and hollowed at the Base, and the

lower Part has no Angles.

Sagittate, Arrow-shaped; when they are triangular, hollowed at the Base, and are furnished with Angles at the lower Part.

Hastate, Javelin-shaped; when they are triangular, the Base and Sides hollowed,

and the Angles spreading.

Panduræform, Pandure-shaped*; when they are oblong, broader above than below,

and contracted in the Sides.

Fissa, cloven; when they are divided by linear Sinusses, and have their Margins straight; and from the Number of such Divisions they are called Bisid, Trisid, Quadrisid, Multisid, &c. cut into two, three, four, sive, or many Segments.

^{*} A musical Instrument of the Lute kind, but now disused: The Shape of it, as given by Marsenus, Harm. Instr. 1. 1. does not answer to that of the Leaves here explained; the Figure of which comes nearer to that of the Body of a Violoncello or Violin.

Lobate, lobed; when they are divided to the Middle into Parts that stand wide from each other, and have their Margins convex; and from the Number of these they are called Bilobe, Trilobe, Quadrilobe, or Quinquelobe; consisting of two, three, four, or five Lobes.

Palmate, handed; when they are cut longitudinally into many Partsnearly equal; the Divisions extending themselves downward, almost to the Base where the Segments cohere.

Pinnatifid, cut into Wings; when they are divided transversely into Laciniæ that are ob-

long and horizontal.

Lyrate, Lyre-shaped; when they are divided transversely into Laciniæ, of which the upper ones are larger, and the lower ones farther asunder.

Laciniate, jagged; when they are variously divided into Parts, and those Parts in like Manner indeterminately subdivided.

Sinuate, bollowed; when they have broad

and spreading Openings in the Sides.

Partite, divided; when they are separated down to the Base; and from the Number of the Divisions they are Bipartite, Tripartite, Quadripartite, Quinquepartite, or Multipartite,

Difk.

tipartite; divided into two, three, four, five,

or many Parts.

Integra, entire; when they are without Divisions, and have no Sinus or Opening. This stands opposed to all the Kinds of divided Leaves before described.

APEX, Tip, is the Extremity in which the Leaf terminates. Leaves, in respect to

their Apices, are called,

Truncate, lopped; when they end in a

transverse Line.

Præmorse, bitten in the Fore-part: when they are very obtuse, and are terminated by unequal Notches or Incisions.

Retuse, blunted; when they terminate in

an obtuse Sinus

Emarginate, nicked; when they terminate in a Notch.

Obtuse, blunt; when they terminate as it were within a Segment of a Circle.

Acute, sharp; when they terminate in an

acute Angle.

Acuminate, pointed; when they terminate

in a fubulate Apex.

Girrhose, claspered; when they terminate in a Clasper or Tendril, as in Gloriosa, Flagellaria, and Nissolia.

The MARGIN of a Leaf is the outermost Boundary of its Sides, exclusive of its Disk. Leaves, in respect to their Margin

are,

Spinose, Thorny, or prickly; when the Margin of the Leaf runs into Points that are hard, stiff and pungent.

Inerm, unarmed or fmooth: which is op-

posed to Spinose.

Dentate, toothed or indented; when the Margin ends in horizontal Points, that are of the Confistence of the Leaf, and are sepa-

rated by intermediate Spaces.

Serrate, fawed; when the Margin is cut into sharp imbricate Angles, that point towards the Extremity of the Leaf: If they point towards the Base, the Leaf is said to be retrorsum serrate, sawed backwards.

Duplicato-ferrate, doubly fawed; when there is a twofold Serrature, the less upon the

greater.

Crenate, notched; when the Margin is cut into Angles, that point towards neither of the Extremities: And these are obtusely crenate, when the Angles are rounded: or acutely crenate, when the Angles are pointed.

Duplicato-crenate, doubly notched; when the Notches are two-fold, the less upon the

greater.

Repand, bending back again; when the Margin

Margin is terminated with Angles, and interjacent Sinusses, that are both inscribed

with the Segments of Circles*.

Cartilagineous, griftly; when the Edge of the Leaf is strengthened by a tough Border, the Substance of which differs from that of the Leaf.

Ciliate, lashed, or fringed; when the Margin is surrounded on all Sides with parallel Bristles.

Lacera, rent or ragged; when they are variously cut on the Margin into unlike Segments.

Erose, gnawed; when the Leaf is finuate, and has other very small obtuse Sinusses or Hollows on its Margin.

Integerrima, very entire; when the outermost Margin is entire and quite free from Notches.

SUPERFICIES, Surface, is the Outside, or what covers the Disk of the Leaf, and respects both the supine † Disk or Face of the Leaf, and prone Disk or Back of it. Leaves, in respect to their Surface, are,

* A Serpentine Edge.

+ Supine is what lies on its Back, or Face upwards; and prone, the contrary: These Terms are therefore well applied to the upper and under Disk or Face of a Leaf.

O 2 Viscid,

Viscid, Clammy; when they are fineared over with a Juice that is not fluid but tenacious, slicky.

Tomentose, downy; when they are covered with a Nap of interwoven Hairs, scarce per-

ceptible, that gives them a Whiteness.

Lanate, Woolly; when they are covered as it were with a Spider's Web; as in Salvia and Sideritis.

Pilose, hairy; when their Surface is covered with distinct Hairs that rise to some Length.

Hirsute, rough with Hair; when they are

hairy in a greater Degree.

Villose, shaggy; when they are covered

with a coarfer Hair or Shag.

Hispid, rough; when the Disk is covered with a stiffish Sort of Bristles that are frangible.

Scabrous, rugged; when the Disk is co-

vered with Tubercules, little Knobs.

Aculeate, prickly; when the Disk is beset

with Points that are sharp and stiff.

Striate, Streaked; when the Surface is cut in, or fcored longitudinally with parallel Lines.

Pappillose, nipply; when it is covered with Vesicles, little Bladders.

Punctate,

Punctate, dotted; when it is besprinkled with hollow Points or Dots.

Nitid, bright; when the smoothness of

the Leaves causes them to shine.

Plicate, plaited; when the Disk of the Leaf rises and falls in Angles towards the Margin; as in Alchemilla.

Undulate, waved; when the Disk of the Leaf rises and falls in Convexities towards

the Margin.

Crisp, curled; when the Circumference of the Leaf becomes larger than the Disk admits of, and is hereby forced to undulate. All curled Leaves are Monsters.

Rugose, wrinkled; when the Veins of the Leaves contract into a narrower Compass than the Disk, so that the Substance between them is obliged to rise; as in Salvia.

Concave, hollow; when the Margin of the Leaf contracts, and becomes less than the Circumscription of the Disk, by which

Means the Disk is depressed.

Venose, veiny; when the Vessels are branched all over the Leaves, and their Anastomose* or Joinings are plain to the naked Eye.

* A Term in Anatomy, expressing the Mouths or Orifices of Veins and Arteries; or in other Words, the Part where they unite, and the Blood is discharged from the one into the other.

Nervose; when they have simple unbranched Vessels, that extend themselves from the Base to the Apex.

Colored; when they change their Green for some other Colour; as in Amaranthus

tricolor †.

Glabra, fmooth; when the Surface is void

of all Inequality.

The SUBSTANCE of a Leaf respects the Conditions of its Sides: In this respect Leaves are,

Teretes ‡, round like a Pillar; when they

are for the most Part cylindric.

Semycylindric, like a halved Cylinder; when they are round on one Side, and flat on the other.

Tubulose, like a Tube or Pipe; when upon cutting them they appear to be hollow within.

Carnofe, fleshy or fucculent; when they are filled with a Pulp

Compressed, flatted; when they are so com-

+ Three-coloured.

‡ Round one Way and long the other: Our Language has no distinct Term to express Roundness in this Sense; the Figure is by Mathematicians called a Cylinder, from a Greek Word signifying to roll; a Body of this Figure being the best adapted to that Sort of Motion.

pressed

pressed by their opposite marginal Sides, that the Substance of the Leaf becomes greater than the Disk.

Plane, level; when they have both Sur-

faces every where parallel.

Gibbous, bunched; when by the Plenty of Pulp both the Surfaces are rendered convex.

Convex, rounding; when the Disk rises

higher than the Sides.

Deprest, pressed down; when the Sides rife

higher than the Disk.

Canaliculate, channelled; when a deep Furrow runs along it, and finks it almost to a half Cylinder.

Ancipites, double-faced; when the Disk is convex, and there are two prominent longi-

tudinal Angles.

Ensiform, Sword-shaped; when they are Ancipites, and grow narrower from the

Base to the Apex.

Acinaciform, Faulchion or Scimitar-shaped; when they are fleshy and compressed, with one Edge convex and narrow, and the other straighter and broader.

Dolabriform, Hatchet-shaped; when their Figure is roundish, compressed and obtuse; gibbous outwardly with a sharp Edge, and

taper towards the lower Part.

Lingueform, Tongue-shaped; when they are 04 linear, linear, fleshy, obtuse, convex underneath,

and often with a cartilaginous Margin.

Triquetrous, three-corned; when they are fubulate, and have three flat longitudinal Sides.

Sulcate, furrowed; when they are scored longitudinally with numerous Angles or Ridges, and as many Hollows or Channels betwixt them.

Carinate, keeled; when the prone Part of

the Disk is prominent longitudinally.

Membranaceous; when they have no perceptible Pulp between the two Surfaces.

CHAP VI.

Of COMPOUND Leaves.

Leaf is faid to be Compound, when there are more than one upon a Petiole or Footstalk.

COMPOUND Leaves are to be confidered in respect to Structure and Degree.

By the STRUCTURE of a compound Leaf is to be understood the Infertion of the Folioles, or leffer Leaves, of which it is compounded; and in this respect Leaves are called,

Compound;

Compound; when a fingle Petiole furnishes more than one Leaf.

Articulate, jointed; when one Leaf grows

out at the Top of another.

Digitate, fingered; when the Apex of a fingle Petiole connects many Folioles: And they are termed Binate, Ternate, or Quinate, growing two, three, or five together, according to the Number of Folioles, of which the digitate Leaf confifts.

Pinnate, winged; when the Sides of a

fingle Petiole connect many Folioles.

Pinnate with an odd one; when it is ter-

minated by an odd Foliole.

A Cirrhose Pinnate Leaf; when it terminates in a Cirrhus or Clasper.

An Abrupt Pinnate Leaf; when it is terminated neither by a Foliole nor Cirrhus.

Oppositely Pinnate; when the Folioles

stand opposite to each other.

Alternately Pinnate; when the Folioles are produced alternately.

Interruptedly Pinnate; when the Folioles

are alternately less.

Articulately Pinnate; when the Petiole common to all the Folioles is articulate, jointed.

Decursively Pinnate; when the Folioles are decurrent,

decurrent, running down; that is, extend themselves downwards along the Petiole.

Conjugate; when the Pinnate Leaf con-

fifts of two Folioles only.

DEGREE, in a compound Leaf, respects the Subdivision of the common Petiole. In respect to which, Leaves, are,

Decompound; when a Petiole once divided

connects many Folioles.

Bigeminate; when a dichotomus * Petiole

connects four Folioles on its Apices.

Biternate, or Duplicato-Ternate; when there are three Folioles on a Petiole, and each Foliole is Ternate; as in Epimedium.

Bipinnate, or Duplicato-Pinnate; when the

Folioles of a pinnate Leaf are pinnate.

Pedate, foot-shaped or Branching; when a bifid Petiole connects many Folioles on its Inside only; as in Passifica and Arum.

Supra-decompound; when many Folioles are born on a Petiole, that has been any

Number of Times fubdivided.

Triternate, or Triplicato-Ternate; when a Petiole bears three Folioles that are each of them ternate.

Tripinnate, or Triplicato-Pinnate; when a Petiole bears many Folioles, each of which are Bipinnate.

* Forked or halved, and each Division forked again.

CHAP.

CHAP. VII.

Of DETERMINATE Leaves.

BY the DETERMINATION of Leaves is to be understood their Character, expressed from some Circumstance foreign to their own particular Structure or Consiguration; as from their Place, Situation, Infertion, or Direction.

By the *PLACE* of a Leaf is meant the Part where it is fastened to the Plant. In

respect to which, Leaves are called,

Seminal, Seed Leaves; which before were the Cotyledons, and are the first which appear.

Radical, Root Leaves; fuch as proceed

from the Root.

Cauline, Stem Leaves; fuch as grow on the Stem.

Rameous, Branch Leaves; fuch as grow on the Branches.

Axillary*, fuch as are placed at the coming out of the Branches.

Floral, Flower Leaves; fuch as are placed

at the coming out of the Flower.

^{*} From Axilla, an Armpit.

By SITUATION is meant the Disposition of the Leaves on the Stem of the Plant. In

respect to which, Leaves are called.

Steliate, starry; or verticillate, whorled; when the Stalk is surrounded in Whorles by more than two Leaves: And these again receive the Denomination of Tern, Quatern, Quine, Sene, &c. according to the Number of Leaves of which the Star or Whorl is composed; as in Nerium, Brabejum and Hippuris.

Opposite; when the Cauline Leaves come out in Pairs facing each other, and each Pair is croffed by the next, so that they point

four different Ways.

Alternate; when they come out fingly; and follow in a gradual Order.

Sparsed, scattered; when they come out in

Plenty about the Plant without Order.

Confert, crowded; when they come out in Quantities, fo as almost to cover the Branches, and leave hardly any Space between them.

Imbricate; when they are confert and erect, so as to lie over one another, each covering a Part of the following one.

Fasciculate, bundled; when many come out

from the same Point; as in Larix.

Distich, in two Rows; when the Leaves

all respect two Sides of the Branches only; as in Abies and Diervilla.

In respect to their INSERTION (which

is usually at the Base) Leaves are called,

Peltate, Shield-fashioned; when the Petiole is inserted into the Disk of the Leaf, and not into its Base or Margin; as in Nymphæa, Hernandria and Colocasia.

Petiolate; when there is a Petiole fastened

to the Leaf at the Margin of the Base.

Sessile, squat; when the Leaf has no Petiole,

but is fastened immediately to the Stem.

Decurrent, running down; when the Base of a sessile Leas extends itself downwards along the Stem beyond the proper Base or Termination of the Leas; as in Verbesina,

Carduus, and Sphæranthus.

Amplexicaul, embracing the Stalk; when the Base of the Leaf embraces the Sides of the Stem crosswise on both Sides; or Semiamplexicaul, balf embracing the Stalk; which only differs from Amplexicaul, in that it is in a less Degree.

Perfoliate; when the Base of the Leaf is continued across the Stem till it meets again, so as to embrace it all around; as in Bupleu-

rum.

Connate, growing together; when two opposite

posite Leaves join, and are united in one;

as in Lonicera and Eupatorium.

Vaginant, forming a Vagina or Sheath; when the Base of the Leaf forms a cylindric Tube that invests the Branch.

In respect to their DIRECTION, Leaves

are called,

Adverse; when their Sides are not turned towards Heaven, but towards the South; as in Amonum.

Oblique; when the Base of the Leas looks towards Heaven, and the Apex or Tip towards the Horizon; as in *Protea* and *Fritillaria*.

Inflex, bending inwards; when the Leaf is bowed upwards towards the Stem.

Adprest; when the Disk of the Leaf lies

close to the Stem.

Erect, upright; when the Angle they form with the Stem is extremely small.

Patent, Spreading; when they make an acute Angle with the Stem.

Horizontal; when they stand at right An-

gles with the Stem.

Reclined, or, as fome term it, Reflex; when they are bowed downwards, so that the Apex or Tip is lower than the Base.

Revolute, rowled back; when they are

rowled downwards.

Dependent,

Dependent, hanging down; when they point directly to the Ground.

Radicant, rooting; when the Leaves strike

Root.

Natant, floating; when they lie on the Surface of the Water; as in Nymphæa and Potamogiton.

Demerse, sunk; when they are hid be-

neath the Surface of the Water.

CHAP. VIII.

Of the FULCRA of Plants.

FULCRUM, a Prop, is a Term used to express those small Parts of Plants, of which the chief Use is to strengthen and support them.

Fulcra are of feven Kinds, viz. Stipula, Bracta, Spina, Aculeus, Cirrhus, Glandula, and Pilus; all which we shall explain in

their Order.

STIPUL A, is a Scale or small Leaf, stationed on each Side the Base of the Petioles or Peduncles when they are first appearing; as in papilionaceous Flowers; and also in Tamarindus, Cassia, Rosa, Melianthus, Lirio-

Liriodendron, Armeniaca, Persica, Padus, and others.

BRACTEA, a floral Leaf, is so called when it differs in Shape and Colour from the rest; as in Tilia, Fumaria bulbosa, Stoechas, and Horminum.

SPINA, a Thorn, is a kind of sharp Weapon or Armature, protruded from the Wood of the Plant; as in Prunus, Rhamnus, Hippophaë, Celastrus and Lycium: It will often disappear by Culture; as in Pyrus.

ACULEUS, a Prickle, is the same Sort of Armature, proceeding from the Cortex of the Plant only; as in Rosa, Rubus,

Ribes, and Berberis.

CIRRHUS, a Clasper or Tendril, is a filiform spiral Band, by which a Plant saftens itself to any other Body; as in Vitis, Bannisteria, Cardiospermum, Pisum, and Bignonia.

of Pap or Teat, ferving for the Excretion of fome Humour: Its Situation is commonly on the Petioles, the Serratures of the Leaves, or the tender Stipulæ.

PILUS, a Hair; is a fort of Briftle, ferv-

ing as an excretory Duct to the Plants.

CHAP.

CHAP. IX

Of the HYBERNACULA of Plants.

THE HYBERNACULUM, Winterlodge, is that Part of a Plant which incloses and protects the Embryo or future Shoot from external Injuries. It is of two Kinds, viz. Bulbus, a Bulb; and Genima, a Bud.

A BULB, is an Hybernacle, placed on the descending Caudex: It is of various Kinds, viz. a *fquamofe* Bulb, when it confifts of imbricate Lamelle*: as in Lilium; a folid Bulb, when it consists of a folid Substance; as in Tulipa: a tunicate Bulb, when it confifts of many Tunics or Coats; as in Cepa: and an articulate or jointed Bulb, when it confifts of Lamellæ that are linked together; as in Lathræa, Martinia, and Adoxa.

GEMMA, a Bud, is an Hybernacle placed on the afcending Caudex: It confifts either of Stipulæ, of Petioles, of the Rudiments of

Leaves, or of cortical squamæ †.

^{*} Thin Plates or Scales.

⁺ Scales of the Bark.

Buds are of various Kinds. In the Generality of Plants, they are Follifero, floriferous, producing both Leaves and Flowers; but in Alnus they bear Leaves only; in Populus, Fraxinus, and fome Species of Salix, they bear Leaves and Flowers distinctly; in Corylus and Carpinus, Leaves and female Flowers; in Pinus and Abies, Leaves and male Flowers; and in Daphne, Ulmus, Cornus, and Amygdalus, Leaves and hermaphrodite Flowers. In Dentaria, Ornithogalum, Lilium, and Saxifraga, the Buds are deciduous.

In feveral Plants there are no Buds; as in Philadelphus, Frangula, Alaternus, Paliurus, Jatropha, Hibifcus, Bahobab, Justicia, Cassia, Mimosa, Gleditsia, Erythrina, Anagyris, Medicago, Nerium, Viburnum, Rhus, Tamarix, Hedera, Erica, Malpighia, Lavatera, Solanum, Asclepias, Ruta, Geranium, Petiveria, Pereskia, Cupressus, Thuya, and Sabina.

In cold Countries there are but few Plants without Buds; and in hot Countries but

few that have any.

CHAP. X.

Of the HABIT of Plants.

DY the HABIT, or external Face of BY the HADII, of Control of a certain Plants, is to be understood a certain Conformity between Vegetables that belong to the same Genus, or are near of Kin to each other*. This Conformity may be in respect to various Circumstances; as Placentation, Radication, Ramification, Intersion, Gem-

* This Definition of the Habit of Plants, which we have taken from the Philosophia Botanica, seems to agree better with the old State of Botany, when Plants were actually ranged according to their external Face, than with the modern System that ranges them by the Fructification: For Plants that by the System are neither of the same Genus, nor have any systematic Affinity, will often have a great Conformity in their Habit; whilst those of the same Genus shall have their Habits distinct. The Habits of Plants was the Invention of the earlier Botanists, who knew no better Rule for the Distribution of Vegetables: And indeed Linneus himself is induced to admit, that it is often a good Guide; and that Cafper Baubine, and others, had in many Cases discovered the Affinity of Plants by the Habit, when Systematists had failed in attempting the same by their artificial Rules; nor does he think even the Fruclification, which is the Invention of the Moderns, sufficient for detecting all the Classes of Vegetables, though he considers it as the primary Guide to the natural Method fo much sought after by those who have cultivated this Science.

mation.

mation, Foliation, Stipulation, Pubescence, Glandulation, Lastescence, Inflorescence, &c. As each of the Terms here enumerated will furnish us with a separate Chapter, we shall forbear the Explanation of them here.

CHAP. XI.

Of PLACENTATION.

BY PLACENTATION* is meant the Disposition of the Cotyledons at the Time when the Seed is beginning to grow. Plants, in respect to Placentation, are termed,

1. ACOTYLEDONES, without Cotyle-dons, when this Part is wanting; as in

Mosses.

2. MONOCOTYLEDONES, with a fingle Cotyledon †; and these are either,

Perforate; as in Grasses. Unilateral; as in Palms; or, Reduced; as in Cepa.

- * The Cotyledons of the Seed in Vegetables answer the Purpose of the Placenta in the Animal Oeconomy; and hence the Disposition of the Cotyledons is called Placentation.
- † Linnæus observes, that the Monocotyledones are properly Acotyledones; the Cotyledons remaining within the Seed.

3- DI-

3. DICOTYLEDONES, having two Co-

tyledons; and these are either,

Immutate, unchanged; as in the Class Didynamia; and in Plants whose Pericarpium is a Legumen, Pomum, or Drupa †.

Plicate, folded; as in Gossypium.

Duplicate, doubled; as in Malva; and in the Class Tetradynamia.

Obvolute, rowled up; as in Helxine.

Spiral, turning like a Skrew; as in Salfola, Salicornia, Ceratocarpus, Bafella, and all Oleraceous Plants ‡; or,

Reduced; as in umbellate Plants.

4. POLYCOTYLEDONES, with many Cotyledons; as in Pinus, Cupressus, and Linum.

+ See these Terms explained in Part I. Chap. 6.

† Pot Herbs. The Oleraceous Plants make an Order in the Fragmenta Methodi Naturalis of Linnæus; confifting of Spinacia, Blitum, Beta, Galenia, Atriplex, Chenopodium, Rivina, Petiveria, Herniaria, Illecebrum, Polyenemum, Axyris, Achyranthes, Amaranthus, Gomphrena, Celofia, Ceratocarpus, Corispermum, Callitriche, Salsola, Salicornia, and Anabasis.

CHAP. XII.

Of RADICATION.

BY RADICATION is meant the Disposition of the Root of the Plant; which is to be considered in respect to the ascending and descending Caudex and the Radicles; as has been shewn in Chap. 2. where the principal Characters of Roots have been explained. Roots are farther distinguished into,

BULBOSE, confishing of a Bulb; and

these are either,

Squamofe, Scaly; as in Lilium. Tunicate, coated; as in Cepa.

Duplicate, double; as in Fritillaria; or,

Solid; as in Tulipa.

TUBEROSE, knobbed; and these are either,

Palmate, handed; as in Orchis.

Fasciculate, bundled; as in Pæonia; or, Pendulous, hanging; as in Filipendula, and Elæagnus.

ARTICULATE, jointed; as is Lathraa,

Oxalis, Martynia, and Dentaria.

FUSIFORM, Spindle-shaped; as in Pastinaca, Daucus, and Raphanus.

GLO-

GLOBOSE, Globe-shaped; as in Bunium; and in some Species of Ranunculus, and Chæ-rophyllum.

CHAP. XIII.

Of RAMIFICATION.

R AMIFICATION is the Manner in which a Tree produces its Branches, with the Situation of which that of the Leaves is also connected *.

Some Plants have no Branches, though they have Leaves which are placed on the Stem. This is the Case with Dietamnus, Paonia, Epimedium, and Podophyllum.

* The Dostrines delivered here under the Head of Ramification do not answer to the Title, the greater Part respecting rather the Situation of the Leaves than that of the Branches: They might, with more Propriety, have been collected under a Head of Foliation; but as the Term Foliation is used to express the Habit of Plants, in respect to the Position of Leaves in the Bud before they disclose themselves, as will be shewn in Chapter 16. these Dostrines could not have stood under the same Head, without a Confusion in the Use of the Term; and this seems to be the Reason why Linnaus, whom we follow, has given them in this Place.

Leaves opposite or alternate are generally a Mark of great Difference in Plants: A few Genera however must be excepted, which have some Species with opposite Leaves, and others with alternate; as in Euphorbia, Cistus, Lantana, Antirrhinum, Lilium, and Epilobium.

In Antirrhinum, Jasminum, Veronica, and Borago, the lower Leaves at the Branches are opposite, and the upper ones at the

Flowers alternate.

In Potentilla supina, and in Potamogiton, the lower Leaves are alternate, and the upper ones on the Branches opposite.

In Nerium the lower Leaves are opposite,

and the upper ones tern.

In Ruscus the lower Leaves are tern, and

the upper ones alternate.

In Coreopsis, alternisolia, and in Antirrhinum chalepense, the lower Leaves are quatern,

and the upper ones alternate.

The natural Situation of the Leaves in Plants that are much branched is best concluded from the radical Leaves.

CHAP XIV.

Of Intorsion.

INTORSION, Winding, is the Flexion or Bending of any Part of a Plant towards one Side.

CAULES volubiles, twining Stems, wind

either,

Sinistrorsum, to the Left; as in Tamus, Dioscorea, Rajania, Menispermum, Cissampelos, Hippocratea, Lonicera, Humulus and Helxine; or,

Dextrorsum, to the Right; as in Phaseolus, Dolichos, Clitoria, Glycine, Securidaca, Convolvulus, Ipomæa, Cynanche, Periploca, Ceropegia, Euphorbia, Tragia, Basella, Eupa-

torium, and Tournefortia.

CIRRHI volubiles, twining Claspers, wind to the Right, and back again. Most leguminose Plants have Cirrhi of this Kind: In Smilax, and in most Species of Piper, the Petioles are cirrhiferous.

COROLLÆ bend to the Left* in Afclepias, Nerium, Vinca, Rauwolha, Periploca,

^{*} Supposing yourself placed in the Centre, and looking towards the South.

and Stapelia; and to the Right in Pedicularis.

In *Trientalis* there is this Singularity, that the Petals are all *Imbricate*, one Side of each folding over the next towards the *Right*.

In Gentiana, the Imbrication of the Petals before they are unfolded is contrary to the

Sun.

PISTILLA incline to the Left in Cucubalus and Silene.

GERMINA are twisted to the Left in Heliëleres and Ulmaria.

FLOWERS, in respect to Intersion, have.

A Refupination*; which is, when the upper Lip of the Corolla look towards the Ground, and the under Lip towards Heaven; as in the European Viola, Ajuga orientalis, Ocymum, and some Species of Satyrium; or,

An Obliquity; as in the Species of Hyssopus called Lopanthus, Nepeta sibirica, and

fome Species of Pedicularis.

SPICE, Spikes, are,

Spiral; as in Claytonia, and in some Asperisolious † Plants; or, Incurvate, crooked; as

* Resupination, is when any Thing is thrown on its Back, or lies Face upwards.

† The Asperisoliæ belong to the Class Pentandria. See

Part II. Chap. 8.

in Saururus, Mimosa, Petiveria, Papaver, Se-

dum rubrum, and Lilium martagon.

In feveral Plants there is found a Contorfion of the Fibres, which answers the End of an Hygrometer *. Thus in Avena, there is an Arista or Beard that is twisted like a Rope; in fome Geraniums, the Arillus of the Seed has a spiral Tail; and in Mnium, the Peduncles are twifted contrary ways above and below.

CHAP XV.

Of GEMMATION.

GEMMATION is the Construction of the Gem or Bud, which is formed either of Leaves, Stipula, Petioles, or Squama. Those that are formed of the Leaves will be confidered in the next Chapter, under the Head of Foliation; the rest are distinguishable into,

^{*} An Instrument for measuring the Degree of Dryness or Moisture of the Air. The Fibres of the Plants here instanced being affected by the Quality of the Air, the spiral Part twists or untwists as the Weather varies; and by observing this, the Temperature of the Air may be discovered.

PETIOLAR Buds, which are either,

Opposite; as in Ligustrum, Phillyrea, Nyctanthes, Syringa, Hypericum, Coriaria, Buxus, Jasminum, Vaccinium, Arbutus, Andromeda, Ledum, Daphne, Laurus, Myrica, Linnæa, Diervilla, Lonicera, Euonymus, Fraxinus, Acer, Esculus, Bignonia, Opulus, Sambucus, and Psidium; or,

Alternate; as in Salix, Spiræa, Genista, Solanum, Hippophaë, Berberis, Ilex, Ribes,

Juglans, Pistachia, and Plumbago.

STIPULACEOUS Buds; which are either,

Opposite; as in Cephalanthus and Rhamnus

catharticus; or,

Alternate; as in Populus, Tilia, Ulmus, Quercus, Fagus, Carpinus, Corylus, Betula, Alnus, Ficus, and Morus.

STIPULACEO-PETIOLAR Buds;

which are.

Alternate; as in Sorbus, Cratægus, Prunus, Mespilus germ. Pyrus, Malus, Cotoneaster, Amygdalus, Cerasus, Padus, Melianthus, Rosa, Rubus, Vitis, Robinia, Cytisus, Potentilla fruticosa, and Staphylea.

ANOMALOUS, or irregular Buds; as

in Abies, Pinus, and Taxus.

In many Plants the Buds are wanting, as has been shewn in Chap. 9.

CHAP.

CHAP. XVI.

Of FOLIATION.

By FOLIATION is to be understood the complicate or folded State the Leaves are in, whilst they remain concealed within the Buds of the Plant*. Leaves, in respect to the Manner of their Complication, are

either,

INVOLUTE, rowled in; when their lateral Margins are rowled spirally inwards on both Sides; as in Lonicera, Diervilla, Euonymus, Rhamnus catharticus, Pyrus, Malus, Populus, Plumbago, Viola, Commelina annua, Plantago, Alisma, Potamogiton natans, Nymphæa, Saururus, Aster annuus, Humulus, Urtica, Hepatica, Sambucus ebulus, and Staphylea.

REVOLUTE, rowled back; when their lateral Margins are rowled spirally backwards on both Sides; as in Rosmarinus, Teucrium marum, Dracocephalon, Digitalis, Nerium, Andromeda, Ledum, Epilobium angusti.

Rumex,

^{*} Linnæus claims the Invention of the Distinctions given in this Chapter, preceding Botanists not having, (as he says) attended to the Foliation in Buds.

Rumex, Persicaria, Polygonum, Parietaria, Primula, Carduus, Cnicus, Tussilago, Scnecio, Cthonna, Potentilla fruticosa, Ptelea, and some

Species of Salix.

OBVOLUTE, rowled against each other; when their respective Margins alternately embrace the strait Margin of the opposite Leaf; as in Dianthus, Lychnis, Saponaria, Epilobium oppositist. Dipsacus, Scabiosa, Valeriana, Marrubium, Phlomis, Salvia, and Prariana, Marrubium, Phlomis, Salvia, and Prariana

fium.

CONVOLUTE, rowled together; when the Margin of one Side furrounds the other Margin of the fame Leaf, in the Manner of a Cowl or Hood; as in Canna, Amomum, Calla, Arum, Piper, Hydrocharis, Commelina lutea, Prunus Armeniaca, Dodecatheon, Crepis, Lactuca, Hieracium, Sonchus sibir. Tragopogon, Orobus, Vicia, Lathyrus, Solidago, Aster, Pinguicula, Vaccinium, Pyrola, Berberis, Brassica, Armoracia, Symphytum, Cynoglossum, Potamogiton perfol. Eryngium, Menyanthes, Saxifraga, Aralia, Dictamnus, Epimedium, and many Grasses.

IMBRICATE; when they are parallel, with a strait Surface, and lie one over the other; as in Syringa, Ligustrum, Phillyrea. Nystanthes, Linnæa, Cephalanthus, Coriaria, Hypericum, Valantia, Justicia, Portulaca, Lau-

rus

rus, Daphne, Hippophaë, Ruscus, Cyanus perennis, Mespilus germ. Campanula, Polemonium,

and Sium.

EQUITANT, riding; when the Sides of the Leaves lie parallel, and approach in such manner, as the outer embrace the inner; (which is not the case with the Conduplicate explained in the next Head) as in Hemero-callis, Iris, Acorus, Carex, Poa, and some

Grasses.

CONDUPLICAE, doubled together; when the Sides of the Leaf are parallel, and approach each other; as in Quercus, Fagus, Corylus, Carpinus, Tilia, Padus, Cerafus, Amygdalus, Cotoneaster, Frangula, Alaternus, Paliurus, Juglans, Pistacia, Rhus, Fraxinus, Sorbus, Rosa, Rubus, Potentilla vulg. Comarum, Bignonia, Cytisus, Robinia, Pisum, Melianthus, Pastinaca, Heracleum, Laserpitium Poterium, and most Diadelphous Plants.

PLICATE, plaited; when their Complication is in Plaits lengthways, like the plicate Leaves explained in Chap. 5. as in Cratægus, Betula Alnus, Fagus, Vitis, Acer, Opulus, Viburnum, Ribes, Althæa, Malva, Humulus, Urtica, Passififora and Alchemila.

RECLINATE, reclined; when the Leaves are reflexed downwards towards the Petiole;

as in Podophyllum, Aconitum, Hepatica, Pul-

fatilla, Anemone, and Adoxa.

CIRCINAL, compassed*; when the Leaves are rowled in spirally downwards; as in Filices, and some Palms.

* In Rings.

CHAP. XVII.

Of STIPULATION.

BY STIPULATION is meant the Situation and Structure of the Stipulæ * at the Base of the Leaves.

The Stipulæ in different Plants are found to be as various as the Leaves. They are,

WANTING in the Asperisoliæt, the Class Didynamia, the Stellatæt, Siliquosæ, Liliacæ, Orchideæ, and in most compound Flowers.

PRE-

* See Chapter 8.

† Pentandria Monogynia, Distinction 1. See Part II. Chap. 8.

‡ Tetrandria Monogynia, Distinction 2. See Part II.

Chap. 7.

| Tetradynamia Siliquosa. See Part II. Chap. 18. § Lilium, Fritillaria Tulipa, and Erythronium, are the lilaccous Plants; which make an Order in the Methodi naturalis fragmenta. See Phil. Bot. page 28.

G Orchis, Satyrium, Serapis, Herminium, Neottia, Ophrys,
Cypri=

PRESENT in the Papilionaciæ*, Lo-mentaceæ†, and in the Class Icosandria.

GEMINÆ, two together, or with a

single one on each Side in most Plants.

SOLITARY, in Melianthus, in which the Stipula is on the Infide; and Ruscus, in which it is on the Outside.

DECIDUOUS, in Padus, Cerafus, Amygdalus; and also ‡ in Populus, Tilia, Ulmus, Quercus, Fagus, Carpinus, Corylus, Betula, Alnus, Ficus, and Morus.

PERSISTING, in the Class Diadelphia,

and in Icosandria Polygynia.

ADNATE, growing close to the Plant, in Rosa, Rubus, Potentilla, Comarum, and Melianthus.

SOLUTE, free or loose, in most Plants.

Cypripedium, Epidendrum, Limodorum and Arethusa, are the Orchideæ; which are another Order in the Methods Naturalis Frag. See Phil. Bot. p. 27.

* Class Diadelphia. See Part II. Chap. 20.

† Sophora, Cercis, Bauhinia, Parkinsonia, Cassia, Poinciana, Tamarindus, Guilandina, Adenanthera, Hænatoxylon, Cassalpinia and Mimosa. These are an Order in M. N. Frag. See Phil. Bot. p. 34. They are called Lomentaceous, from Lomentum, which signifies Bean Meal.

‡ The Genera here instanced are the same with those enumerated in the 15th Chapter, as having stipulaceous Buds that are alternate, which are those reserved to by

Linuæus in this Place.

INTRAFOLIACEOUS, on the Infide of

the Leaves, in Ficus and Morus.

EXTRAFOLIACEOUS, on the Outside of the Leaves, in Alnus, Betula, Tilia, and the Class Diadelphia.

CHAP. XVIII.

Of Pubescence.

PUBESCENCE, Downiness*, is an Armature, by which Plants are defended from external Injuries. Pubescence is of the

following Kinds, viz.

SCABRITIES, Roughness; which is composed of Particles scarce visible to the naked Eye †, that are scattered over the Surface of the Plant. This is distinguishable into,

1. Scabrities GLANDULOSA, a glandulose Roughness; when it consists of little Glands,

which are either,

Miliary, like Grains of Millet.

* The Term Downiness is not to be taken here in too stricta Sense, as the following Explanations shew.

+ Guettardus was the first who carefully examined this kind of Pubescence.

Vesicu-

Vesicular, composed of Bladders.

Lenticular, resembling Lentils.

Globular, Globe-shaped; as in Atriplex and Chenopodium.

Secretory, ferving for Secretion.

Catenulate, confishing of little Chains; or,

Utricular, like little Bottles.

2. Scabrities SETACEA, a briftly Roughness; when it consists of Bristles, which are either,

Cylindric, like a Cylinder.

Conic, like a Coen.

Hamose, hooked.

Glanduliferous, bearing Glands.

Furcate, forked.

Securiform, Hatchet-shaped; as in Hu-mulus.

Aggregate and Starry; as in Alyssium and Helicteres; or,

Azgregate and Simple; as in Hippophaë.

3. Scabrities ARTICULATA, a jointed Roughness; when it is in Joints, which are either,

Simplices, simple.

Nodose, knotty. Caudate, tailed.

Ramose, branching; as in Verbascum; or,

Plumose, feathery.

 Q_2

LA-

LANA, Wool, is a Protection to many Plants against the scorching Heat; as in Sideritis Canariensis, Salvia Canariensis, the Salvia called Æthiopis, Marrubium, Verbascum, Stachys, the Carduus called Eriocephalus* and Onopordum.

TOMENTUM, Down, is a Defence for Plants against Winds; it has commonly a whitish or hoary Appearance; as in Tomex,

Medicago, and Halimus.

STRIGƆ, with their stiff Bristles, are of use to prevent Plants from being bruised or destroyed by Vermin; as in Castus, Malpighia, Hibiscus, and Rubus.

HAMI, Hooks, fasten themselves to Ani-

mals as they pass by; these are either,

Triglockid, three-pointed; as in Lappula; or,

* There is a Genus intituled, Eriocephalus, but the Plant here meant is the Carduus Eriophorus of Lin. Species Plant. page 823, which is the Carduus capite rotundo tomentofo of Cajp. Baühine: It was formerly called Corona

fratrum.

† Linnaus seems to have omitted the Definition of this Term. It signifies properly a Row, or ordinate Disposition of Things of any Sort; and appears, by the Instances here given, to be applied to Thorns or Prickles that come out in Rows, or in some regular Order. No English Word occurs that is exactly expressive of the Term in this Sense.

Incurvate, crooked; as in Arstium, Mer-

rubium, Xanthium, and Petiveria.

STIMULI, Stings, keep off naked Animals by their venomous Punctures; as in

Urtica, Jatropha, Acalypha and Tragia.

ACULEI, Prickles, keep off particular Animals; as in Volkameria, Pisonia, Casalpinia, Mimosa, Parkinsonia, Capparis, Erythryna, Robinia, Solanum, Cleome, Smilax, Convolvulus, Aralia, Duranta, Xylon, Drypis, Euphorbia, Tragacantha, and Tragopogon. In Hugonia the Aculei are spiral, or cirrhose*.

FURCÆ, Forks; are a Defence against Animals in general; as in Berberis, Ribes, Gleditsia, Mesembryanthemum, Osteospermum, Ballota, Barleria, Fagonia, and Poterium.

SPINÆ, Thorns, ferve to keep off Cattle.

These are either,

On the Branches; as in Pyrus, Prunus, Citrus, Hippophae, Gmelina, Rhamnus, Lycium, Catesbea, Celastrus, Ulex, Asparagus, Spartium, Achyronia, Ximenia, Ononis, Stachys, Alyssum, and Cichorium.

On the Leaves; as in Aloe, Agave, Yucca, Ilex, Hippomane, Theophrasta, Carlina, Cynara, Onopordum, Morina, Acanthus, Gun-

^{*} From Cirrhus, a Clasper or Tendril.

delia, Juniperus, Salfola, Polygala, Ruscus, Borbonia, Statice, Ovieda, and Cliffortia.

On the Calyx; as in Carduus, Cnicus, Cen-

taurea, Moluccella, and Galeopsis; or,

On the Fruit; as in Trapa, Tribulus, Murex, Spinachia, Agrimonia, and Datura.

CHAP. XIX.

Of GLANDULATION.

GLANDULATION respects the secretory Vessels; which are either Glandules, Follicles, or Utricles.

GLANDULES* are either,

Petiolar, when they are on the Petioles; as in Ricinus, Jatropha, Passiflora, Cassia, and

Mimosa.

Foliaceous, when they are produced from the Leaves: And these are either from the Serratures, as in Salix; from the Base, as in Amygdalus, Cucurbita, Elæocarpus, Impatiens, Padus, and Opulus, from the Back, as in Urena, Tamarix, and Croton; or from the Surface, as in Pinguicula, and Drosera.

Stipular, when they are produced from the Stipulæ; as in Baubinia, and Armeniaca.

Capillary, like Hairs; as in Ribes, Antirrhinum quadrifolium, Scrophularia, Cerastium, and Silene; or,

Pores only; as in Tamarix and Silene vif-

caria.

FOLLICLES*, are Vessels distended with Air; as in *Utricularia*, at the Root of which there are roundish Vessels that are inflate, and have two Horns; and in *Aldrovanda* also, at the Leaves of which there are Pot-shaped Follicles that are semicircular.

UTRICLES†, are Vessels silled with a secreted Liquor. Thus in Nepenthes, the Extremity of the Leaves terminate in a Thread, and this Thread terminates in a Cylinder, the Top of which is closed with a Lid that opens on the Edge; in Sarracena also, the Leaves are hooded almost like those of Nepenthes, but sessile at the Root; and in Marcgravia, from the Centre of the Umbel there are vessels produced, which resemble the ringent Corolla of the Galeopsis, but without the under Lip.

Q4

CHAP.

^{*} The Word fignifies a little Ball filled with Wind.

[†] The Word fignifies a little Bottle.

CHAP. XX.

Of LACTESCENCE.

ACTESCENCE, Milkiness, is when a copious Juice flows out on any Injury done to the Plant. The Colour of the Li-

quor is either,

WHITE; as in Euphorbia, Papaver, Afclepias, Apocynum, Cynanchum, Campanula, Lobelia, Jafione, Acer, Selinum, Rhus, Cactus mamillaris, and the Semiflosculose Flowers of Tournefort *.

YELLOW; as in Chelidonium, Bocconia,

Sanguinaria, and Cambogia; or,

RED; as in Rumex fanguinea.

^{*} Sonchus, Lactuca, &c. These make one of the Classes of Tournefort's Inst. R. H.

CHAP. XXI.

Of INFLORESCENCE.

INFLORESCENCE, is the Manner in which the Flowers are fastened to the Plant by the Peduncle. Plants, in respect to Inflorescence, are distinguished into,

VERTICILLATE, with the Flowers in

Whorls; as in Marrubium.

CORYMBIFEROUS, bearing the Flow-

ers in Corymbi; as in filiquose Plants *.

SPICATE, with the Flowers in Spikes; as in Phytolacca, Arum, Phanix, Piper, &c.

PANICULATE, with the Flowers in

Panicles; as in fundry of the Graffes.

AXILLARY Flowers are such as come out from the Wings of the Leaves or Branches, which is the most common Case.

OPPOSITIFOLIOUS, fuch as come out opposite to the Leaves; as in Piper, Saururus,

* Myagrum, Anastatica, &c. The siliquose Plants make an Order in the Met. Nat. Frag. See the Phil. Bot. page 34, where the Plants here meant are enumerated.

Phytolacca, Dulcamara, Vitis, Cissus, Corchorus, Geranium, Ranunculus aquatilis and the annual Species of Cistus.

INTERFOLIACEOUS, fuch as come out between the opposite Leaves, but are

placed alternately; as in Asclepias.

LATERIFOLIOUS, fuch as come out at the Side of the Base of the Leaf; as in Claytonia, Solanum, and the Asperifoliæ*.

PETIOLAR, when the Peduncle is inferted in the Petiole; as in Hibifcus, and

Turnera.

CIRRHIFEROUS, fuch as bear Cirrhi;

as in Cadiospermum, and Vitis.

SUPRA-AXILLARY, fuch as come out above the Wings; as in the Asperifolia, and in Potentilla Monspeliensis.

^{*} Pentandria monogynia, Distinction 1st.

CHAP. XXII.

Of Specific Distinctions.

WE have treated of Generic Differences in the five last Chapters of the second Part of this Work; we come now to treat of the Specific ones. For this a Foundation has been lain in the preceding Chapters of this third Part, by the Explanation of those Parts of the Vegetable, on which the Difference of the Species most commonly depends; but it is necessary to observe, that the Fructification which we treated of in the first Part, as preparatory to the Distinctions of the Classes and Genera, has its Influence likewise in many Cases upon the Species, as will appear in the Course of this Chapter.

Generic Differences we have shewn to depend on the Form of the Fructification, and to be confined to that alone: Specific Differences take their Rise from any Circumstance, wherein Plants of the same Genus are found to disagree; provided such Circumstance is constant, and not liable to Alteration by Culture or other Accidents.

Hence

Hence Linnœus afferts, the Species to be as many as there were different Forms of Vegetables produced at the Creation; and confiders all casual Differences as Varieties of

the same Species.

Towards the End of the last Century, the Defire of increasing the Number of Plants had so seized the Botanists of that Time, that new Species were established on too flight Differences, to the great Detriment of the Science; and the fame Eagerness led them also to set down as new Genera what should have been Species only. This Evil was in some Measure unavoidable, whilst there were no fixt Principles for the Regulation of the Science in this respect. A Remedy to it was first attempted by Vaillant; afterwards by Justieu, Haller, Royenus, Gronovius, and others; and lastly by Linnæus, whose Aphorisms have brought the Work much nearer to Perfection. Something indeed feems still wanting to complete these Doctrines; but perhaps more is not to be expected till this Branch of natural Philofophy receives farther Affistance from Experiment.

We shall treat in this Chapter of those Circumstances by which Species are distinguished

guished with Certainty, referving the Va-

rieties for the Chapter following.

The ROOT often affords a real specific Difference*, and is sometimes the chief Distinction; as in Scilla, where the Species are scarce to be distinguished, but by the Bulbs being tunicate, solid, or squamose; and in Orchis, where the Species are known by the Roots being fibrose, round, or testiculate; but as Access cannot always be conveniently had to this Part of the Plant, it is better to fix the specific Distinction on some other Circumstance, if the Case will admit of it.

The TRUNK often furnishes a sure Mark of Distinction. Thus in Hypericum †, Convallaria‡, and Hedysarum ||, there are

† Convallaria polygonatum (Lin. Spec. Plant. 315) caule ancipiti. Convallaria multiflora (Lin. Spec. Plant. 315.)

caule tereti.

|| Hedyfarum triquetrum (Lin. Spec. Plant. 746.) caule triquetro.

^{*} In Fumaria bulbofa, the greater and less Sorts with a bollow Root, and the greater and less Sorts with a Root not hollow, appear by the whole habit of the Plants to be Varieties only, as will be observed in the next Chapter.

[†] Hypericum hirsutum (Lin. Spec. Plant. 786.) caule tereti. Hypericum persoratum (Lin. Spec. Plant. 785.) caule ancipiti. Hypericum quadrangulum (Lin. Spec. Plant. 785.) caule quadrangulo.

many Species distinguishable by the Angles of the Stem; and in Lupinus, the Species are not eafy to be known, except by the fame Part being simple or compound. In Eriocaulon, the most remarkable Difference is in the Culmus, which is quinquangular, bexangular, decangular, &c. In Pyrola, some Species are distinguished by a triquetrous Scapus. Citrus, the Aurantium is distinguished from its Congeners by its Petioles, which are winged or increased by a Membrane on each Side; and in Gomphrena, there is a Species* distinguished by its Peduncles which are Diphyllous, being furnished with two opposite Folioles that are placed under the Head of the Flowers.

The LEAVES exhibit most natural and also most elegant specific Differences. These have been so amply treated of already, that it would be only Repetition to particularize or exemplify the numerous Cases that occur of such Distinctions.

FULCRA are generally a good Mark of Distinction, and must be carefully attended to by the Botanist for the Determination of the Species; as we shall shew by many Ex-

^{*} Gomphrena globofa (Lin. Spec. Plant. 224.)
amples,

amples, where the Difference confists principally in those Parts of the Plant. Thus,

Aculei are remarkable in Rubus.

Spines in Prunus.

Bracteæ in Fumaria, Dracocephalon, and the Indian Species of Hedyfarum; to which must be added the Coma, which is a bushy Head, composed of Bracteæ that are of a large Size, and terminate the Stem in Corona

imperialis, Lavandula, and Salvia.

Glandules furnish the essential Mark in Padus, Urena, Mimofa, Cassia, and many other Genera, which it would be impossible to distinguish without being acquainted with this Part. They are found on the Serratures at the Base of the Leaves in Heliocarpus, Salix, and Amygdalus; on the Back of the Leaves in Padus, Urena, and Passiflora; and on the Aculei in Baubinia aculeata, where by the Apex of the Aculei a Liquor is fecreted. The Amygdalus is distinguished from Perfica only by the Glandules of the Serratures; nor could the Species of Urena be ever fixed without examining the Glandules of the Leaves. The Convolvulus with a tuberculate Calyx, is so variable in the Shape of its Leaves, that it feems divisible into many Species, yet it is kept together by the Glandules: And there is a Species of Monarda, distindistinguishable from its Congeners by the Glandules, that are sprinkled over the Corolla.

Stipulæ are of great Consequence in many extensive Genera, where the Species are liable to Consusion. Thus in one Species of Melianthus the Stipulæ are solitary; in the other they are in Pairs; and the Cassia auriculata is rendered distinct from all its Congeners by the Shape of its Stipulæ, which are reniform and barbate.

HYBERNACLES afford likewife a cer-

tain specific Difference.

That Gems or Buds often differ greatly in the same Genus is proved by Rhamnus; in which the various Species, viz. Gervispina, Alaternus, Paliurus, and Frangula, have all a Difference in their Buds; and in that extensive and intricate Genus the Salix, the Species are by the Structure and Foliation of the Buds distinguished with great Certainty.

Bulbs also distinguish the Species, as is proved by Scilla, where they afford a real, and almost the only Distinction; and by their Situation in the Axilla of the Leaves, they determine Dentarium, Lilium, Ornithogalum,

Saxifraga, and Bistorta.

INFLO-

INFLORESCENCE affords the truest, and in most Genera the most elegant Distinction. Thus in Spiræa, the Flowers are in some Species duplicato-racemose; in others corymbose; and in others again umbellate; without which Characters there would be no Certainty of the Species.

The Peduncle or Flower-stalk, which is the Foundation of the Characters of Inflorescence, varies as to the Manner of its sup-

porting the Flowers; and is faid to be,

Flaccid, wanting Firmness; when it is so weak as to be bowed down by the Weight of the Flower itself.

Cernuus, nodding; when it is incurvate at the Apex, so that the Flower inclines to one Side, or towards the Ground, and cannot preserve an erect Posture, by reason of the strict Curvature of the Pedunele; as in Carpefium, Bidens radiata, Carduus nutans, Scabiosa alpina, Helianthus annuus, and Cnicus sibiricus.

Bearing Fastigiate Flowers; when the Pedicelli*, or partial Foot-stalks elevate the Fructification into a Fascicle, so that they are

^{*} In this, and some other Places, the *Philosophia Botanica* has *Petiole* for *Pedicellus*; but the latter is the proper Term for the partial Foot-stalk of a Flower. See Chap. 4.

of an equal Height at the Top, as if they had been shorn off horizontally; as in Dianthus and Silene.

Patulus, Spreading; when it is branched out every Way, so that the Flowers stand remote from each other. This stands op-

posed to coarctate, close.

Bearing conglomerate Flowers; when it is branched, and bears the Flowers in close compact Heaps, and is therefore opposed to a diffuse Pannicle.

Articulate, jointed; when it is furnished with a Joint; as in Oxalis, Sida, and Hi-

biscus.

Coming out in Pairs; as in Capraria, and Oldenlandia Biflora.

Tern, or three from the same Axilla; as in

Impatiens Triflora.

Flexuose, bending divers Ways, or undulate,

waved; as in Aira flexuosa.

Remaining on the Plant after the Fructification is fallen; as in Jambolifera, Ochna, and Justicia.

Incrassate, thickened towards the Flower; as in Cotula, Tragopogon, and most cernuous

Flowers.

The Parts of FRUCTIFICATION often furnish most certain and constant specific Differences. Linnaus tells us he was once

of a contrary Opinion; and held, that as the Flower was of short Duration, and its Parts commonly very minute, recourse should not be had to the Fructification for specific Differences, till all other Ways had been tried and found ineffectual; but as the Fructification contains more distinct Parts than all the rest of the Plant taken together, and Certitude is found throughout Nature to depend mostly on her minuter Parts, he has fince readily admitted this Distinction.

In Gentiana, the Species cannot any Way be diffinguished, if the Flower is not admitted as a specific Character; but they are eafily distinguished by their Corolla, which vary in being campaniform, rotate, infundibuliform, quinquefid, quadrifid, octofid, &c.

In Hypericum, the Species are distinguished by the Flowers being Trigynous * or Pen-

tagynous +.

In Geranium, the African Species are diftinguishable from their European Congeners, by the Corolla being irregular, and also by the Connection of their Stamina.

In Lichen, the Fructification is distin-

* With three Styles. † With five Styles. R 2 guishable guishable into Tuberculum, a little Knob, which is a Fructification confisting of rough Points collected like a Heap of Dust: Scutellum, a small Buckler, which is a concave orbiculate Fructification, the Margin of which is elevated on every Side; or Pelta, a little Shield, which is a plane Fructification fastened for the most Part to the Margin of the Leaf*.

In Mosses, the Capitulum, or little Head, is an Anthera.

In Grasses, Spicula, a little Spike, is a partial one; the Arista is tortile, twisted, when it has a twisted Joint in the Middle. Articulus a foint, is the Part of the Culmus that lies between two Geniculi, or Knots.

A radiate compound Flower confifts of Disk and Radius. The Radius is composed of irregular Corollulæ in the Circumference; and the Disk of smaller Corollulæ, that are for the most Part regular.

A decompound Flower contains within the

fame

^{*} The Terms explained here, and in the following Paragraphs, respect such Circumstances of the Parts of Fructification as concern rather the specific Differences than the classic, or generic Ones: and we have therefore followed Linnæus in subjoining them to this Head, notwithstanding that some sew of them have been already mentioned and explained in the first Part of this Work.

fame Calyx leffer Calyces, that are each of them common to many Flowers; as in Sphæranthus.

The Corolla is faid to be equal, when its Parts are equal in Figure, Magnitude, and Proportion; unequal, when the Parts answer in Proportion, though not in Magnitude, fo that the Flower comes out to be regular; regular, when it is equal in respect to the Figure, Magnitude, and Proportion of the Parts; irregular, when the Parts of the Limb differ in Figure, Magnitude, or Proportion. Rictus, a Gaping, or Grinning, is the Gap or Opening between the two Lips of the Corolla. Faux, the Gorge, or Gullet, is the Opening of the Tube of the Corolla. Palatum, the Palate, is a Gibbofity, or bunching out in the Faux of the Corolla. Calcar, a Spur, is a Nectarium extending in a Cone in the hinder Part of the Corolla. The Corolla is Urceolate, Pitcher-shaped, when it is inflate and gibbous on all Sides, after the Manner of that Vessel; cyathiform, shaped like a Drinking-glass, when it is cylindric, but widening a little towards the upper Part; conniving, when there is a Convergency of the Points of the feveral Lobes of the Limb; or, lacera, rent, when the Limb is finely cut; R 3 The

The Anthera is versatile* and incumbent †, when it is fastened on at its Side; and Erect, when it is fastened on its Base.

The Pericarpium is inflate, puffed, when it is hollow like a Bladder, and not filled up with Seeds; prifinatic, Prifin-shaped, when it is a linear Polyedron with plane Sides; turbinate, Top-shaped, when it tapers towards the Base; as in Pyrus; contort, twisted, when it turns spirally, as in Ulmaria, Helisteres, and Thalistrum; acinaciform, Faulchion-shaped, when the Fruit is compressed like a Blade, one of the longitudinal Angles being obtuse, and the other acute; echinate, prickly like an Echinus ‡, when it is beset on all Sides with Spines or Aculei; torose §, brawny, when it is here and there gibbous with brawny Swellings or Prominences; as in Lycopersicon and Phytolacca.

^{*} Eafy to turn.

⁺ Lying flat.

[‡] Hedge-Hog.

[§] Torus, fignifies properly the Rife or Swelling out of the strong Muscles of an Arm.

CHAP. XXIII.

Of VARIETIES.

their proper Species, is a Work no lefs necessary than that of collecting the several Species under their proper Genus. We have observed in the last Chapter, that such Differences are only incidental to Vegetables, and are not found constant and unchangeable in them, are to be considered as Varieties only. These Varieties are grounded chiefly on the following circumstances, viz. Sex, Magnitude, Time of Flowering, Color, Scent, Taste, Virtues and Uses, Duration, Multitude, Pubescence, Leaves, and monstrous Flowers. Of all which we shall treat in their Order.

The SEX of Plants in the Class Dioecia affords a Variety of all others the most natural; for the male and female Flowers in this Class being upon different Plants, these last are distinguished by the Fructification though the Species is the same in both. But it must be observed, that this Kind of Variety holds only in the Class Dioecia; for

R 4

in the Genera that belong to any of the hermaphrodite Classes, the same Circumstance, whenever it happens, becomes a specific Distinction: Thus in Rumex, which belongs to the Class Hexandria, the Acetosa and Acetosella, being disecious Plants, that is, having their male and female Flowers on distinct Roots, these Species are thereby distinguished from the rest of the Genus.

MAGNITUDE is no specific Difference, but a Variety, being liable to Alteration

from the Soil or Climate.

The TIME of flowering is a treachrous Mark of a distinct Species; and unless supported by other Distinctions, can only be considered as a Variety.

COLOR is found so changeable in the fame Species, that it must be considered as a

Variety only.

In Flowers the Color is most variable: as in Tulipa, Hepatica, Cyanus, Campanuli, Aquilegia, Viola, Galega, Fumaria, and others, which it would be tedious to enumerate: The most usual Change is from Blue or Red to White. The trisling Distinctions which have been made by Anthophili (Florists) in some of the Genera we have here instanced, from the Colors of the Corollæ, and to which they have given such pompous

Names*, are held by Linnaus to be below the Notice of the true Botanist: and he warns him from catching the Infection of fuch idle Amusement.

Fruits are observed to change their Color as they ripen; the Pericarpium, when it is a Berry, changing from Green to Rea, and from Red to White; and in ripe Fruits, the Color, whether White, Red, or Blue, admits of Variation; as in Pyrus, Prunus, Cerasus, and others †.

Seeds rarely vary in their Color; though there are Instances of it in Papaver, Avena,

Phajeolus, Pifum, and $Faba \ddagger$.

* Phæbus, Apollo Aftræas Dædalus, Cupido,

Triumphus Flora, Ponipa Flora, Spiender Jun, Corona Euroja. Gemma Follandia.

+ Solanum Guineense fructu nigerrimo (B). Solanum annuum baccis luteis (Dillen.) Solanum Judaicum baccis aurantiis (Dillen.) Rubus vulgaris major fructu albo (Raj.)

Ribes vulgare acidum albas baccas ferens (7. B.) † Papaver hortense nigro semine (C. B.)

Papaver hortense semine albo (C. B. Avena vulgaris & alba (C. B.)

Avena nigra (C. B.)

Phaseolus vulgaris fructu violaceo (Tournes.)

Phaseolusvulgarisfructu ex rubro et nigrovariegato (Tour.) Phaseolus fructu albovenis nigris ct lituris distincto (Tour.) Pifum maximum fruetu nigra linea maculato (H.R.P.)

Pifum hortense flore fructuque variegato (C. B.) Faba ex rubicundo colore purpurascente.

Roots are also little subject to Alteration in Color; yet a Variation is observed in the

Roots of Daucus and Raphanus *.

Leaves are rarely found to quit their Green, but they are coloured in Amaranthus; and frequently become spotted; as in Persicaria, Ranunculus, Orchis, Hieracium, and Lactuca †.

The whole Plant is often found to vary in its Color; as in Eryngium, Abrotanum, Artemisia, Atriplex, Amaranthus, Portulaca,

and Lactuca ‡.

* Daucus fativus radice alba (Tourn.)
Daucus fativus radice lutea (Tourn.)
Daucus fativus radice aurantii coloris (Tourn.)
Daucus fativus radice atro-rubente (Tourn.)
Raphanus niger (C. B.)

+ Persicaria cum maculis serrum equinum referentilus

(Tourn.)

Ranunculus hederaceus atra macula notatus. Orchis palmata palustris maculata (C. B.) Hieracium Alpinum maculatum (Tourn.) Lactuca maculosa (C. B.)

‡ Eryngium latifolium planum caule ex viridi pallescente

fiore albo (Tourn.)

Abrotanum cauliculis albicantibus (Tourn.) Artemisia vulgaris major caule ex viridi albicante (Tou.)

Atriplex hortensis rubra (C. B.)

Amaranthus sylvestris maximus Novæ Angliæ spicis

purpureis (Tourn.) Portulaca sativa foliis flavis (Moris.)

Lactuca capitata rubra B.

SCENT

SCENT in Plants is, of all other Circumstances, the least to be depended on; and therefore all Species grounded on a Distinction in the Scent only, are to be rejected, and referred to Varieties.

riable from Soil or Culture; and not to be depended on as a real Difference. The Distinctions of Gardeners in Fruit of the same Species, is considered by Linnaus as a Variety too minute even to enter the Province of Botany; and therefore the various Names *, which have been given to these Distinctions, are to be neglected as impertinent in this Science; though, for the Purposes of Gardening, they have their Use.

The VIRTUES and USES of Plants furnish no specific Difference; and the Distinctions therefore of physical Writers are

not always to be depended on.

The DURATION of Plants is no fure Mark of distinct Species, being often owing rather to the Place than to the Nature of the Plant. In warm Regions, Plants that

* Poma Paradifiaca
Prafomila
Rubelliana
Borstorphiana
Appiana
Melimela

Pyra Falerna Favonia Boni Christiana Crustamina Picena Libraria. are annual with us will become perennial or arborescent; as is found in Tropæolum, Beta, Majorana, Malva arborea, &c. And on the contrary, cold Regions will occasion Perennial Plants to become annual; as is observed in Ricinus, Mirabilis*, &c.

MULTITUDE or Quantity, is an accidental Circumstance in Plants, and cannot conclude any Thing, whether the Increase be of the *Plant* itself, or of its *Roots*, *Stems*,

Leaves, or Fruetification.

PUBESCENCE is an uncertain Mark; as by Culture and Change of Soil, Plants are subject to lose as well their Spines as their Hair or Down.

LEAVES, though they for the most part furnish most elegant specific Differences, as has been observed in the last Chapter, are yet subject to Luxuriation in the same Species, which must be carefully distinguished. This may respect their Opposition and Composition, and also their being crisp (curled) or bullate, (bladdery).

In respect to Opposition, opposite Leaves will sometimes become tern, quatern, or quine, growing by Threes, Fours, or Fives; and then the Stem also from quadrangular,

^{*} Ricinus and Mirabilis, are naturally perennial Plants, and are only killed by Frost in cold Countries.

fquare,

fquare, will become polygonus, of many Sides*.

In respect to Composition, digitate Leaves will frequently gain an Addition of one or

more Folioles †.

Crisp, curled Leaves are a very frequent Variety. In Tanacetum, Mentha, Ocymum, and Matricaria, which are scented Plants, there is this Singularity observable, that when the Leaves are curled, the Scent is heightened by the Crispature ‡.

Bullate, bladdery Leaves are generally produced from such as are rugose, wrinkled; and this is owing to the Increase of the Substance of the Leaf within its Vessels which occasions it to swell and rise: In the Saponaria Concava Anglicana, a bullate

* Lysimachia lutea major foliis ternis (Tourn.) Lysimachia lutea major foliis quaternis (Tourn.) Lysimachia lutea major foliis quinis (Tourn.)

Anagallis cærulea foliis binis ternisve ex adverso nascentibus (Raj.)

Anagallis Phænicea foliis amplioribus ex adverso quaternis (Tourn.)

Salicaria trifolia caule Hexagono (Tourn.)

+ Trifolium quadrifolium hortense album (C. B.)

† Malva crispa (J. B.) Mentha crispa Danica (Park.) Tanacetum foliis crispis (C. B.)

Matricaria Crispa.

Ocymum latifolium maculatum vel crispum (C. B.)

Leaf

Leaf is produced in a fingular Manner from the Defect of Wrinkles; for here the Margin of the Leaf contracting itself, the Leaves become hollow like a Spoon *.

Plants are fometimes found to vary from broad-leaved to narrow-leaved; but this Va-

riation is less frequent †.

MONSTROUS Flowers, fuch as the Multiplicate, Full, or Proliferous, derive their Origin from natural ones, and therefore are to be confidered only as a Variety from Luxuriance.

Upon the whole, the Change of Soil is found to have a great Effect on the Nature of Plants; and to this many of the Varieties above mentioned must be imputed; as in Buxus, Xanthium, Acanthus, Cinara, Prunella, Myosotis, Crista, Galli, and Cerin-

* Ocymum foliis bullatis (C.B.)
Brassica undulata (Renealm.)
Lactuca capitata foliis magis rugosis (B.)
Lactuca capitata major foliis rugosis & contortis (B.)
Lactuca capitata omnium maxima verrucosa (B.)

† Heracleum hirsutum foliis angustiorībus (C. B.)
Lycopus foliis in profundas lacinias incisis (Tourn.)
Brassica angusto apii folio (C. B.)
Veronica Austriaca foliis tenuissime laciniatis (Tourn.)
Sambucus laciniato folio (C. B.)
Sonchus asper laciniatus (C. B.)
Valeriana Sylvestris foliis tenuissime divisis (C. B.)
the;

the*; which would all return to their old Conditions if the Soil were changed again. And in like Manner the Improvements which are made by Culture in the Plants cultivated for Sale, as in Vitis, Malum, Pyrus, Amygdalus, Persica, Asparagus, Cerasus, and in Grain, Pulse, and Fruit of all Kinds are not to be esteemed as lasting: for all these, if left to themselves in a poor Soil, would run off again, and resume the Qualities they had when they grew wild.

The Soil has some effect also upon Leaves; for though it is less common for the Leaves to differ on the same Plant, as they do in some Species of Lepidium, Tithymalus, Rudbeckia, and Hibiscust; yet it is observed, that

^{*}Buxus arborescens (C. B.) Buxus humilis (Dod.)
Xanthium (Dod.) Xanthium Canadense majus (Tourn.)
Acanthus mollis (C. B.) Acanthus aculeatus (C. B.)
Cinara aculeata (C. B.) Cinara non aculeata (C. B.)
Brunella (Dod.) Brunella cæruleo magno store (C. B.)
Myosotis foliis hirsutis (H. C.) et foliis glabris (H. C.)
Crista galli sæmina (J. B.) et mas. (J. B.)
Cerinthe store ex rubro purpurascente (C. B.) et stavo store
asperior (C. B.)

[†] Tithymalus heterophyllus (Plum. Pluk. A.m. 112.f.6.) Rudbeckia foliis inferioribus trilebis, superioribus indivisis, (Hort. Upsal.)

Hibiscus foliis inferioribus integris, superioribus trilobis (Hort. Cliff.)

Lepidium foliis caulinis pinnato-multifidis, rameis cordatis amplexicaulibus integris (H. C.)

watry Soils are apt to produce a Division in the lower Leaves of the Plant, and even to render capillary such as are produced under the Water; as in some Species of Ranunculus and Sisymbrium*; and also in Cicuta, Sium, Phellandrium, Oenanthe, &c. And on the contrary, that mountainous Plants usually have their upper Leaves more divided, and their lower ones more entire; as in Pimpinella, Petroselinum, Anisum, and Coriandrum.

Varieties may generally be explained and reduced under their proper Species with Ease; by conferring the variable Marks of the Variety with the natural Plant: But there are some few which are attended with Difficulty, and require Judgment and Experience; as in some Species of Helleborus †, Gentiana ‡, Fumaria ||, Valeriana §, Scorpiu-

rus,

* Ranunculus aquaticus folio rotundo et capillacco (C.B.) Sifymbrium foliis simplicibus dentatis serratis (H.C.)

† Helleborus aconiti folio, pare glovoso croceo (Amm. ruth. 101.) Trollius humilis store putula (Buxb. cent. 1. p. 15. l. 22.) Varietas Hellebori Trollii. (Fl. Succ. 475.) NeEtariis longitudine corollæ.

† Gentiana corolla hypocrateri formi. Tubo villis claufo, calycis foliis alternis majoribus (Fl. Lap. 94.) Varietas gentianæ fauce barbata (Fl. Succ. 203.) flore quadrifido et calycinis laciniis alternis duplo latioribus.

|| Funaria bulbosa radice cava et non cava major ct

minor.
§ Valeriana arvensis præcox humilis, semine compresso (T.)
Valeriana

rus*, and Medicago +. In respect to the Fumaria in question, it is known to be one Species only, by the Minuteness of its Perianthium, the Scale of its Bud, the Structure of its Leaves, the Situation of the Branch, the Place of the Bractea, the Corolla, Siliqua, Seeds, and Stigma; but it varies in the Division of its Bractæ, and in the Root being more or less hollow. And that the Valerians here spoken of are all of the same Species, though they differ so greatly in the Fruit, and often in having their Leaves more cut, is also proved from their dichotomous Stems and annual Roots, and from the Structure of their Leaves, Corollæ, and Seeds. Nor should the Species of Scorpiurus and Medicago here instanced be either

Valeriana arvensis præcox humilis, foliis serratis (T.)
Valeriana arvensis serotina altior, semine turgidiore (Mor.)
Valeriana semine umbilicato nudo rotundo (Moris.)
Valeriana semine umbilicato nudo oblongo (Moris.)
Valerianella semine umbilicato hirsuto majore (Moris.)
Valerianella semine umbilicato hirsuto minore (Moris.)
Valerianella Cretica, fructu vesicario (Tourn. Cor.)
Valerianella semine stellato (C.B.)

* Scorpioides filiqua campoide hispida (J. B.) Scorpioides filiqua cochleata & striat z Ulissiponensis (T.) Scorpioides Bupleuri folio siliquis levibus (Park.) Scorpioides siliqua crassa. (Boëlii Ger.)

† Medicago leguminibus cochleatis, stipuis dentatis, caule diffuso (H.C.)

S

of them parted, although there is so remarkable a Diversity in the Fruit of the Individuals. In the Medicago* in particular, the Forms of the real Snails, which Nature has imitated in these Plants, are scarce more diversified than is the Fruit of this mimic Species; so that the Botanist, who is studious of Varieties, would hardly find any End to his Labour, of pursuing Nature through the various Shapes which she has so wantonly adopted.

The whole Order of the Fungi, to the Scandal of the Science, is still a Chaos, the Botanists not being yet able in these to decide with Certainty what is a Species, and

what a Variety.

*	Medicago scutellata	Medicago hirfuta
	orbiculata	lupulina
	echinata	
	turbinata	rugosa
	coronata	polycarpos
	doliata	dicarpos
	ciliaris	Arabica
	tornata	Cretica.

Explanation of the TABLES, with some Hints concerning the Manner of studying the Science of Botany by the Help of this Book.

THE first Table is divided into three Columns; the first of which contains the Names of the Genera admitted by Linnaus, alphabetically disposed; the second, the English Names where there are any that have been commonly received; and the last, the Names of the Classes and Orders, to which the Genera respectively belong.

The fecond Table is likewise divided into three Columns; the first of which contains the generic Names that are now out of Use, alphabetically disposed; the second, the English Names that have been given to them; and the third, the names of the Linnean Genera, under which they are respectively

to be fought in the first Table.

By the Help of these Tables, the Reader will be enabled to find the Class and Order of any Plant he may propose to examine, after he has informed himself of its botanic Name: For if the Name given him be not the same admitted by the Author we have S 2 followed.

followed, and confequently not to be met with in the first Table, he will probably find it in the fecond, which will refer him to the first.

By these Tables, properly used, in Conjunction with the Book itself, it is conceived, that the Reader may arrive not only at an Acquaintance with the Principles of the Science, but even at a practical Knowledge of the Distinctions of Vegetables, much fooner than he could by reading the Descriptions, and inspecting the Figures given by old Writers, whose Collections are either without Method, or disposed according to fuch Systems as have been exploded; for by what we have laid before him, he will be enabled to confult the Productions of Nature, and compare them with what is delivered in the Book; or, in other Words, to mix the Practice with the Theory; without which the Study of this Science would be dry and tafteless, and the Progress made in it of little Advantage. As we cannot but recommend this useful Amusement to the Reader in the strongest Manner, fo we shall attempt to affift him farther, by a few Hints for the methodizing of his Endeavours.

The first thing he should aim at is, to get a thorough Knowledge of the Distinc-

tions

tions of the twenty-four Classes. In order to this, the first Part of this Book should be previously perused, as the Parts of Fructification are therein explained; without which the Classes could not be understood. Then let him gather some of the ordinary Flowers, fuch as the Blossoms of the Fruitgarden or Kitchen-ground, or the ornamental Flowers of his Borders, and bring them by Turns into his Closet for Examination, chusing first the larger Kinds, and such as naturally expand and discover the Stamina and Piftillum; and when he has accustomed himself to know the Parts of Fructification in these easier Kinds, he may then try fuch as require being stript of their Covers, or diffected with a Penknife, to difcover their inner Parts, or whose Minuteness requires the Affistance of a magnifying Glass for the observing them properly. The double Flowers should be avoided, as being unnatural. Having fixed on the Flower he would first examine, he will, by the Help of the Tables, be informed of the Class it belongs to; then turning to the Chapter of the fecond Part of the Book, which treats of that Class, let him carefully read over the Character there given of the Class, and compare his flower therewith; a frequent Practice

Practice of this will foon make him retain the Names of the Classes, and their several Distinctions.

When he has arrived thus far, he may begin to try his Strength, by deciding always first himself upon the Class, before he turns to the Book; and he will be now qualified to begin the Study of the Orders, which he may pursue after the same Method as he did the Classes, finding the Orders out first by the Tables, reading their Characters, and comparing them with the Flower, till he has gained a clear Notion of their several Distinctions; after which he should in like manner attempt to declare the Order himself.

These Subdivisions also of the Orders, tho' they are not made Part of the systematic Distribution of Vegetables, are yet well worth his Attention; as in some of the extensive Orders it would be more troublesome to detect the Genus of any Flower, if the Genera contained in the Order were not parcelled out under such convenient Distinctions. By these Divisions, the Reader will be led to decide on any Plant within a very sew Genera. And here we must take our Leave of him, and refer the rest of the Work to his own Industry; for though we have laid down

down the Principles of both generic and specific Distinctions, the former in the second, and the latter in the third Part of this Work, yet it was impossible to include even the Characters of the Genera in a work of this Compass, much less to have entered upon an Enumeration or Description of the several Species.

S 4

TABLE

TABLE I.

GENERA.	English Names.	CLASSES and ORDERS.
Abroma		Polyadelphia, Pentandria
Abrus		Diadelphia, Decandria
Acalypha		Monoecia, Monadelphia
Acanthus	Bears Breech	Didynamia, Angiosper.
Acæna		Tetrandria, Monogynia
Acer	Maple	Polygamia, Monoecia
Achillea	Milfoil	Syngenesia, Polyg. sup.
Achras	Sapota	Hexandria, Monogynia
Achyranthes	1	Pentandria, Monogynia
Acnida		Dioecia, Pentandria
Aconitum	Wolfsbane	Polyandria, Trigynia
Acorus	Sweet Rush	Polyandria, Trigynia Hexandria, Monogynia
Acrostichum	Forked Fern	Cryptogamia, Filices,
Acta	Herb Christoper	Polyandria, Monoginia
Adansonia.	Æthiopian Sourgourd	
Adelia	* * * * * * * * * * * * * * * * * * * *	Dioccia, Monadelphia
Adenanthera	Bastard Flower-fence	Decandria, Monogynia
Adiantum	Maiden Hair	Cryptogamia, Filices
Adonis	Bird's Eye	Polyandria, Polygynia
Adoxa	Tuberous Moschatel,	
20. 11	or hollow Root	
Ægilops		Polygamia, Monoccia
Ægiphila	** 1 0 1 0	Tetrandia, Monogynia
Ægopodium		- Pentandria, Digynia
20.	wort, or wild Angelic	
Ægopricon		Monoecia, Monandria
Æschynomen		t Diadelphia, Decandria
Æsculus	Horse Chesnut	Heptandria, Monogynia
Æthusa	Lesser Hemlock, o Fools Parsley	r Pentandria, Digynia
Agaricus	Agaric	Cryptogamia, Fungi
Agave	American Aloë	Hexandria, Monogynia
Ageratum	Bast. Hemp Agrimon	y Syngenesia, Polyg. æqu.
Agrimonia	Agrimony	Dodecandria. Digynia
Agroslemma	Campion, or wile	d Decandria, Pentagynia
Agroftis -	Bent Grass	Triandria, Digynia
Agyneja	- 0	Monoecia, Gynandria
		3 Aira
		21114

GENERA.	English Names.	CLASSES and ORDERS.
Aira	Hair Grafs	Triandria, Digynia
Aitonia		Monadelphia, Octandria
Ajuga	Bugle	Didynamia, Gymnosp.
Aizoon	3	Icosandria, Pentagynia
Albuca		Icofandria, Pentagynia Hexandria, Monogynia
Alcea	Hollyhock, or Rof	e-Monadelphia, Polyandr,
Alchemilla	Ladies Mantle	Tetrandria, Monogynia
Aldrovanda		Pentandria, Monogynia
Alctris	Bastard Aloë	Hexandria, Monogynia
Alisma	Water Plantain	Hexandria, Polygynia
Allamanda		Pentandria, Monogynia
Allionia		Tetrandria, Monogynia
Allium	Garlick	Tetrandria, Monogynia Hexandria, Monogynia
Allophyllus		Octandria, Monogynia
Aloë		Hexandria, Monogynia
Alopecurus	Foxtail Grass	Triandria, Digynia
Alpinia	011.1	Monandria, Monogynia
Alfine	Chickweed	Pentandria, Monogynia
Alitonia		Polyandria, Monogynia
Alstroemeria		Hexandria, Monogynia
Althæa	Marshmallow	Monadelphia, Polyandr.
Alyffum	Madwort	Tetradynamia, Siliculos,
Amaranthus		- Monoecia, Pentandria
	gentle	77 1 2 7 7
Amaryllis	Lily Daffodil	Hexandria, Monogynia
Ambrofia		Monoecia, Pentandria
Ambrofina		Gynandria, Polyandria
Amellus	•	Syngenesia, Polyg, super,
Amethystea		Diandria, Monogynia
Ammannia	Did 1- 177 1	Tetrandria, Monogynia
Ammi	Bishop's Weed	Pentandria, Monogynia Monandria, Monogynia
Amomum	Ginger	Diadelphia, Decandria
Amorpha	Bastard Indigo Almond, or Peach	Icofandria, Monogynia
Amygdalus '	Almond, of Teach	Octandria, Monogynia
Amyris Anabafis	Parry hearing Class	Pentandria, Digynia
	Berry-bearing Glass- wort	
Anacardium	Cashew nut	Enneandria, Monogynia
Anacyclus	n· ı	Syngenes. Polyg. superst.
Anagallis	Pimpernel	Pentandria, Monogynia
Anagyris	Stinking Bean Trefoil	Decandria, Monogynia
Anastatica	Rose of Jericho	Tetradynamia, Siliculosa
Anchufa	Buglos	Pentandria, Monogynia Ancistrum

CLASSES and ORDERS. ENGLISH NAMES. GENERA. Diandria, Monogynia Ancistrum Monoecia, Gynandria Andrachne Bastard Orpine Marsh Cistus Decandria, Monogynia Andromeda Polygamia, Monoecia Andropogon Pentandria, Monogynia Androface Downy Sow-thiftle Syngenefia, Polyg. æqu. Andryala Anemone Wind Flower Polyandria, Polygynia Pentandria, Digynia Anethum Dill Angelica Pentandria, Digynia Monoecia, Diandria Anguria Annona Polyandria, Polygynia Custard Apple Anthemis Chamomile Syngenefia, Polyg. Super. Anthericum Hexandria, Monogynia Spider-wort Anthistiria Triandria, Digynia Anthoceros Cryptogamia, Algæ Anthosper-Amber Tree Polygamia, Dioecia mum Anthoxan-Diandria, Digynia Vernal Grass thum Antholyza Triandria, Monogynia Anthyllis Kidney Vetch, or Diadelphia, Decandria Lady's Finger Antichorus Octandria, Monogynia Andidesma Dioecia, Pentandria Antirrhinum Snap-Dragon, Dydynamia, Angiosper. Calves-Snout Apactis Dodecandria, Monogynia Aphanes Parsley-piert Tetrandria, Digynia Aphyllanthes Hexandria, Monogyniz Aphyteja Monadelphia, Triandria Apium Parfley Pentandria, Digynia Apluda Polygamia, Monoccia Apocynum Dogs-bane Pentandria, Digynia Aponogeton Heptandria, Tetragynia Tetrandia, Monogynia Aquartia Aquilegia Columbine Polyandria, Pentagynia Aquilicia Pentantria, Monogynia Arabis Bastard Tower Mustard Tetradynamia, Siliquosa Arachis Ground Nut Diadelphia, Decandria Aralia Berry-bearing Angelica Pentandria, Digynia Arbutus Strawberry-tree Decandria, Monogynia Arctium Burdock Syngenesia, Polyg. æqu. Arctopus Polygamia, Dioecia 2 Arctotis

GENERA.	English Names,	CLASSES and ORDERS,
Arctotis		Syngenesia, Polyg. Ne-
Andrina	70 0 7 7 7	cessaria
Arduina	Bastard Lycium .	Pentandria, Monogynia
Areca	Areca Nut	Appendix, Palmæ
Arenaria	Sea Chickweed	Decandria, Trigynia
Arethufa		Gynandria, Diandria
Aretia	D. 1-1-1 D	Pentandria, Monogynia
Argemone	Prickly Poppy	Polyandria, Monogynia
Argophyllum		Pentandria, Monogynia
Aristida		Triandria, Digynia
Aristotelia	Divit	Dodecandria, Monogynia
Aristolochia	Birthwort	Gynandria, Hexandria
Arnica	-	Syngenesia, Polyg. super-
Artedia	,	Pentandria, Digynia
Artemilia	Mugwort	Syngenes. Polyg. superfl.
Artocarpus		Monoecia Monandria
Arum .	Wake Robin, or Cuc- kow Pint	-Gynandria, Polyandria.
Arundo	Reed	Triandria, Digynia
Afarum	Afarabacca	Dodecandria, Monogyn,
Asclepias	Swallow-wort	Pentandria, Digynia
Ascyrum	St. Peter's-wort	Polyadelphia, Polyandr.
Aspalathus	African Broom	Diadelphia, Decandria
Asparagus	Asparagus, or Spe rge	Hexandria, Monogynia
Asperugo	Wild Buglos, or Goose Grafs	Pentandria, Monogynia
Asperula	Woodroof	Tetrandria, Monogynia
Afphodelus		sHexandria, Monogynia
	· Spear	
Afplenium	waste	Cryptogamia, Filices
After	Star-wort	Syngenes. Polyg. superfl.
Astragalus	Liquorice Vetch, o. Milk Vetch	rDiadelphia, Decandria
Astrantia	Black Masterwort	Pentandria, Digynia
Astronium		Dioecia, Pentandria
Athamanta	Spignel	Pentandria, Digynia
Athanasia	•	Syngenefia, Polyg. æqu.
Atractylis	Distaff Thistle	Syngenes. Polyg. æqua.
Atragene		Polyandria, Polygynia
Atraphaxis		Hexandria, Digynia
Atriplex	Orach	Polygamia, Dioecia
Atropa	Deadly Nightshade	Pentandria, Monogynia
-01		Aucuba

CLASSES and ORDERS. ENGLISH NAMES. GENERA. Monoecia, Tetrandria Aucuba Triandria, Digynia Oats Avena Decandria, Pentagynia Averrhoa Didynamia, Angiosper Avicennia Monoecia, Triandria Axyris Gynandria, Pentandria Ayenia American upright Ho-Pentandria, Monogynia Azalea ney-fuckle Plowman's Spikenard Syngenesia Polyg. super. Baccharis Octandria, Monogynia Baeckea Didynamia, Gymnosper. Black Horehound Ballota Syngenef. Polyg. Necef. Baltimora Decandria, Trigynia Banisteria Tetrandria, Monogynia Banksia Didynamia, Angiosper. Barleria Syngenesia Pol. Equalis Barnadesia Monadelphia, Polyandri. Barringtonia Didynamia, Angiosper. Bartfia Pentandria, Trigynia Malabar Nightshade Bafella Dodecandria, Monogyn. Baffia Dioecia, Tetrandria Batis Decandria, Monogynia Mountain Ebony Bauhinia Befaria Dodecandria, Monogyn. Monoccia, Polyandria Begonia Syngenes. Polyg. super. Bellium Syngenes. Polyg. super. Bellis 'Daify Pentandria, Monogynia Bellonia Berberry, or Piperidge-Hexandria, Monogynia Berberis Decandria, Pentagynia Bergia Didynamia, Angiosper Befleria Pentandria, Digynia Beta Beet Didynamia, Gymnosper. Monoecia, Triandria Betonica Betony Betula Birch Water Hemp. Agrim. Syngenef. Polyg. æqual. Bidens

Anotta

Bignonia Biscutella

Biserrula

Bixa Bladhia

Blakea Blasia

Elaria

Trumpet Flower

Buckler Mustard

Monoecia, Triandria
Syngenef. Polyg. æqual.
Didynamia, Angiosper.
Tetradynamia, Siliculos.
Diadelphia, Decandria
Polyandria, Monogynia
Pentandria, Monogynia
Dodecandria, Monogyn.
Cryptogamia, Algæ
Tetrandria, Monogynia
Blech.

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Genera. H	English Names.	CLASSES and ORDERS.
Blechnum		Cryptogamia, Filices
Blitum	Strawberry-Spinage,	Monandria, Digynia
	or Blite	, 8,
Bobartia		Triandria, Digynia
Bocconia	Amorian Horman	Dodecandria, Monogyn:
Boerhaavia Boletus	American Hogweed	Monandria, Monogynia
Bombax	Silk Cotton Tree	Cryptogamia, Fungi Monadelphia, Polyandr.
Bontia		Didynamia, Angiosper.
Borasius		Appendix, Palma
Borbonia		Diadelphia, Decandria
Borago	Borrage	Pentandria, Monogynia
Bolea	Rod Tree	nPentandria, Digynia
Brabejum	African Almond	Polygamia, Monoecia
Braffica	Cabbage	Tetradynamia, Siliquosa
Brathys	Outline Cost	Polyandria, Pentagynia
Briza Bromelia	Quaking Grafs	Triandria, Digynia
Bromus	Brome Grafs	e Hexandria, Monogynia Triandria, Digynia
Broffæa	Dionic Grais	Appendix, Palmæ
Browallia		Didynamia, Angiosper
Brownæa		Monadelphia, Enneand.
Brunia		Pentandria, Monogynia
Brunsfelsia		Pentandria, Monogynia
Brucea	D	Dioecia, Tetrandria
Bryonia.	Bryony	Monoecia, Syngenesia
Bryum Bubon	Macedonian Parsley	Cryptogamia, Musci
Bucida	Tracedomain Torney	Pentandria, Digynia Decandria, Monogynia
Buchnera		Didynamia, Angiosper.
Buddleja		Tetrandria, Monogynia
Bufonia		Tetrandria, Digynia
Bulbocodium		Hexandria, Monogynia
Bumalda		Pentandria, Digynia
Bunias	D' a se Family au	Tetradynamia, Siliquosa
Bunium		t Pentandria, Digynia
Buphthalmum Bupleurum	Hare's car	Syngenef. Polyg. superfl. Pentandria, Diginia
Burmannia	Addic 2 cm	Hexandria, Monogynia
Burfera		Hexandria, Monogynia
Butomus	Flowering Rush, c	r Enneandria, Hexagynia
1	Water Gladiolus	
Buxbaumia		Cryptogamia, Musci Buxus

TABLE I. CLASSES and ORDERS. ENGLISH NAMES. GENERA. Monoecia, Tetrandria Box Tree Buxus Cryptogamia, Algæ Byffus Pentandria, Monogynia Byttneria Alpine Colt's Foot Syngenefia, Polyg. æqu. Cacalia Icofandria, Monogynia Cactus Melon Thistle Pentandria, Digynia Decandria, Monogynia Cachrys Brafiletto Cæfalpinia Syngenes. Polyg. æqual. Calea Syngenes. Polyg neces. Calendula Marygold Hexandria, Monogynia Calamus Diandria, Monogynia Calceolaria Isocandria, Polygynia Calycanthus Virginian All-spice Gynandria, Polyandria African Arum Calla Tetrandria, Monogynia Callicarpa Johnsonia Polyandria, Digynia Calligonum

Triandria, Monogynia Callifia Water-Monandria, Digynia Callitriche Star-Headed Chickweed

Calophyllum Marsh Marygold Caltha

Cambogia

Cameraria Bell-Flower Campanula Camocladia

Calodendrum

Camellia

Camphorosma Canarina Canarium Canella Canna Cannabis Hemp

Capparis Caper Bush Capraria Capficum Guinea Pepper

Capura Cardamine Lady's Smock Cardiosper-Heart Pea

mum Carduus Thiftle Carex

Pentandria, Monogyma Polyandria, Monogynia Polyandria, Polygynia Polyandria, Monogynia Monadelphia, Polyand Pentandria, Monogynia Pentandria, Monogynia Triandria, Monogynia Tetrandria, Monogynia Hexandria, Monogynia Dioecia, Pentandria Dodecandria, Monogyn IndianFloweringReed Monandria, Monogynia

Dioecia, Pentandria Polyandria, Monogynia Didynamia, Angiosper. Pentandria, Monogynia Hexandria, Monogynia Tetradynamia, Siliquofa Octandria, Trigynia

Syngenes. Polyg. æqualis Monoecia, Triandria Carica

GENERA,	English Names.	CLASSES and ORDERS.
Carica	Papaw	Dioecia, Decandria
Carifla		Pentandria, Monogynia
Carlina	Carline Thistle	Syngenef. Polyg. æqua.
Carolinea		Monadelphia, Polyandr.
Caroxylon		Pentandria, Monogynia
Carpefium		Syngenesia, Polyg. super.
Carpinus	Hornbeam	Monoecia, Polyandria
Carthamus	Bastard Saffron	Syngenes. Polyg. æqu.
Carum	Carui, or Carraway	Pentandria, Digynia
Caryocar		Polyandria, Tetraginia
Caryophyllus	Clove Tree	Polyandria, Monogynia
Caryota		Appendix, Palmæ
Cassia	Wild Senna	Decandria, Monogynia
Cassine	Hottentot Cherry	Pentandria, Trigynia
Caffyta		Enneandrea, Monogynia
Castilleja		Didynamia, Angiosper
Cafuarina ·		Monoecia, Monandria
Catananche	Candy Lion's Foot	Syngenesia, Polyg. zqu.
Catesbæa	Lily Thorn	Tetrandria, Monogynia
Caturus	7.	Dioccia, Pentandria
Caucalis	Bastard Parsley	Pentandria, Digynia
Ceanothus	New Jersey Tea	Pentandria, Monogynia
Cecropia		Dioecia, Diandria
Cedrela	0 00 00	Pentandria, Monogynia
Celastrus	Staff Tree	Pentandria, Monogynia
Celofia	Cock's Comb	Pentandria, Monogynia
Celfia	Marcal III.	Didynamia, Angiosper.
Celtis	Nettle Tree	Polygamia, Monoecia
Cenchrus	Camerrane	Polygamia, Monoecia
Centaurea	Centuary	Syngenesia, Polyg. frustr.
Centella		Monoecia, Tetrandia
Centunculus	Dodge Wood	Tetrandia, Monogynia
Cephalanthus	Button Wood	Tetrandia, Monogynia
Cerastium	Monte-Parchickweed	Decandría, Pentagynia
Ceratocarpus	Carob Tree or St	Monoecia, Monandria
Ceratonia	Carob Tree, or St John's Bread.	Polygamia, Polyoecia
Ceratophyl-	Horned Pond Weed	Monoecia, Polyandria
lum	Horned Fond Weyer	William Tolyanalia
Cerbera		Pentandria, Monogynia
Cercis	Judas Tree	Decandria, Monogynia
Cerinthe	Honey-wort	Pentandria, Monogynia
Ceropegia	220110) 11010	Pentandria, Monogynia
Cestrum	Baftard Jasmine	Pentandria, Monogynia
,002020111	Daring January	Chæro-

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
Chærophyl-	Wild Chervil	Pentandria, Digynia
lum Calcas		Decandria, Monogynia
Chamærops	Dwarfpalm, or Palmeto	
Chamira	~	Tetradynamia, Siliquosa
Chara		Monoecia, Monandria
Cheiranthus	Stock July Flower	Tetradynamia, Siliquosa
Chelidonium	Celendine	Polyandria, Monogynia
Chelone		Didynamia, Angiosper.
Chenolea		Pentandria, Monogynia
Chenopodium	Goofe Foot, or Wild Orach	Pentandria, Digyma
Cherleria		Decandria, Trigynia
Chiococca	0 1 50	Pentandria, Monogynia
Chionanthus	Snow-drop Tree, or Fringe Tree	Diandria, Monogynia
Chironia		Pentandria, Monogynia
Chlora		Octandria, Monogynia
Chondrilla	Gum Succory	Syngenef.Polyg.aqualis
Chrysanthe- mum	CornMarigold	Syngenesia, Polyg.super-
Chryfitrix		Polygamia, Dioecia
Chrysobalanus		Icosandria, Monogynia
Chrysocoma	Goldy Locks	Syngenes. Polyg. æqualis
Chryfogonum	C. A 1	Syngenes. Polyg.æqualis
Chryfophyl- lum	Star Apple	Pentandria, Monogynia
Chrysospleni- um	Golden Saxifrage	Decandria, Digynia
Cicca		Monoecia, Tetrandria
Cicer	Chich Peas	Diadelphia, Decandria
Cichorium	Succory, or Endive	Syngenesia, Polyg. æqua.
Cicuta	Water Hemlock	Pentandria, Digynia
Cimicifuga		Polyandria, Tetragynia
Chinchona		Pentandria, Monogynia
Cinna	Class Elemen	Monandria, Digynia
Cineraria	Sky-Flower	Syngenesia, Polyg. super:
Circaa	Enchantersnighthad	e Diandria, Monogynia
Cissampelos Cissus		Dioecia, Monadelphia
Ciftus	Rock Rofe	Tetrandria, Monogynia
Citharexylon	Fiddle-Wood	Polyandria, Monogynia
Citrus	Citron	Didynamia, Angiosper. Polyadelphia, Icosandria
Clathrus		Cryptogamia, Fungi
	${f T}$	Clavaria Clavaria

Copaifera

GENERA. ENGLISH NAMES. CLASSES and ORDERS.

Clavaria Cryptogamia, Fungi Claytonia Pentandria, Monogynia Virgin's Bower Clematis Polyandria, Polygynia Cleome Bastard Mustard Tetradynamia, Siliquosa Cleonia Didynamia, Gymnosper. Clerodendrum Didynamia, Angiosper. Clibadium Monoecia, Pentandria Clethra Decandria, Monogynia Cleyera Polyandria, Monogynia Dioecia, Polyandria Cliffortia Clinopodium Field Bafil Didynamia, Gymnosper. Diadelphia, Decandria Clitoria Balfam Tree Clusia Polygamia, Monoecia Clutia Dioecia, Gynandria Treacle Mustard Tetradynamia,Siliculofa Clypeola Cneorum Widow wail Triandria, Monogynia Blessed Thistle Syngenesia, Polyg.æqua. Cnicus ScurvyGrafs, or Spoon-Tetradynamia, Siliculofa Cochlearia wort Palmæ Cocoa-Nut Cocos Octandria, Digynia Codia Octandria, Trigynia Coccoloba Decandria, Monogynia Codon Coffee-Tree Pentandria, Monogynia Coffea Monoecia, Triandria Job's Tears Coix Hexandria, Trigynia Tetrandria, Tetragynia Meadow Saffron Colchicum Coldenia Diandria, Monogynia Collinfonia Didynamia, Angiosper-Columnea Diadelphia, Decandria Bladder Senna Colutea Icosandria, Polygynia Marsh Cinquefoil Comarum Octandria, Monogynia Combretum Tetrandria, Monogynia Cometes Triandria, Monogynia Commelina Pentandria, Pentagynia Commersonia Triandria, Monogynia Comocladia Cryptogamia, Algæ Conferva Pentandria, Digynia Hemlock Conium Monadelphia, Decandria Connarus Pentandria, Monogynia Button-Tree Conocarpus Hexandria, Monogynia Lily of the Valley Convallaria Pentandria, Monogynia Bind weed Convolvulus Syngenesia, Polyg.fruitr. Flea-bane Conyza

Decandria, Monogynia

Coproima

GENERA.	English Names.	CLASSES and ORDERS*
Coprosma		Pentandria, Digynia
Corchorus	Jew's Mallow	Polyandria, Monogynia
Cordia	Sibestan	Pentandria, Monogynia
Coreopfis		r Syngenesia, Polyg.frustr.
Coriandrum	Coriander	Pentandria, Digynia
Coriaria	Myrtle leaved Sumach	
_		Pantandria Monogunia
Coris	Heath low Pine	Pentandria, Monogynia
Corifpermum	Tickfeed	Monandria, Digynia
Cornucopiæ	D : 0 ::	Triandria, Digynia
Cornus	Cherry	n Tetrandria, Monogynia
Cornutia		Didynamia, Angiosper.
Coronilla	JointedpodedColuta	Diadelphia, Decandria
Corrigiola	•	Pentandria, Trigynia
Cortula	Bear's Ear Sanicle	Pentandria, Monogynia
Corylus	Hazel, or Nut Tree	Monoecia, Polyandria
Corymbium		Syngenesia, Monogamia
Corynocarpus		Pentandria, Monogynia
Corypha		Palmæ
Costus		Monandria, Monogynia
Cotula		Syngenef. Polyg. fuperfl.
Cotyledon	Navel-wort	Decandria, Pentagynia
Crambe	Sea Cabbage	Tetradynamia, Siliquofa
Crameria	oca Cabbago	Tetrandria, Monogynia
Craneolaria		Didynamia, Angiosper.
Crassula	Lesser Orpine	Pentandria, Pentagynia
	Wild Service	
Cratægus Cratæva		Icofandria, Digynia
	Garlick Pear	Dodecandria, Monogyn.
Crepis	Bastard Hawkweed	Syngenesia, Polyg. æqual.
Crescentia	Calabath Tree	Didynamia, Angiosper.
Cresta	AC 1 1 1 7 11	Pentandria, Digynia
Crinum	Afphodel Lily	Hexandria, Monogynia
Crithmum	Samphire	Pentandria, Digynia
Crocus	Saffron	Triandria, Monogynia
Crotalaria		Diadelphia, Decandria
Croton	Tallow-tree,orBastare Ricinus	d Monoecia, Monadelphia
Crucianella	Petty Madder	Tetrandria, Monogynia
Cruzita		Tetrandria, Digynia
Cucubalus	Berry-bearing Chick weed	Decandria, Trigynia
Cucumis	Cucumber	Monoecia, Syngenesia
Cucurbita	Gourd	Monoecia, Syngenesia
Cuminum	Cumin	
- 447424144144	T ₂	Pentandria, Digynia
-	1 2	Cunila

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS
Cunila		Diandria, Monogynia
Cunonia		Decandria, Digynia
Cupania		Monoecia, Monadelphia
Cupressus	Cyprefs	Monoecia, Monadelphia
Curatella	/ Pro-	Polyandria, Digynia
Curcuma	Turmerick.	Monandria, Monogynia
Cuscuta	Dodder	Tetrandria, Digynia
Cussonia		Pentandria, Digynia
Cyanella		Hexandria, Monogynia
Cycas	Sego Palm	Cryptogamia, Filices
Cyclamen	Sowbread	Pentandria, Monogynia
Cymbaria		Didynamia, Angiosper.
Cynanchum		Pentandria Digynia
Cynara	Artichoke	Syngenesia, Polyg.æqua
Cynoglossum	Hound's-Tongue	Pentandria, Monogynia
Cynometra	9	Decandria, Monogynia
Cynomorium		Monoecia, Monandria
Cynofurus	Dog's-tail Grass	Triandria, Digynia
Cyperus	English Galingale	Triandria, Monogynia
Cypripedium	Ladies Slipper	Gynandria, Diandria
Cyrilla	••	Pentandria, Monogynia
Cytinus		Gynandria, Dodecandria
Cytifus	Base Tree Tresoil	Diadelphia, Decandria

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Dactylis	Cock's Foot Grafs	Triandria, Digynia
Dais Dalbergia		Decandria, Monogynia Diadelphia, Octandria
Dalechampia		Monoecia, Monadelphia
Daphne	Mezereon, or Spurge- Laurel	-Octandria, Monogynia
Datisca	Bailtard Hemp	Dioecia, Dodecandria
Datura	Thorn Apple	Pentandria, Monogynia
Daucus	Carrot	Pentandria, Digynia
Decumaria		Dodecandria, Monogyn.
Delima		Polyandria, Monogynia
Delphinium	Larkspur	Polyandria, Trigynia
Dentaria	Tooth-wort	Tetradynamia, Siliquofa
Deutzia		Decandria, Trigynia
Dialium		Diandria, Monogynia
Dianthera		Diandria, Monogynia
Dianthus	Pink, or Carnation	Decandria, Digynia
Diapensia		Pentandria, Monogynia Dictamnus

English Names. Classes and Orders. GENERA. Dictamnus Fraxinella, or white Dit-Decandria, Monogynia tany Didelta Syngenesia, Polyg. frustr Fox-glove Didynamia, Angiosper. Digitalis Triandria, Monogynia Dilatris Dillenia Polyandria, Polygnyia Tetrandria, Monogynia Diodia Decandria, Monogynia Dionæa Venus's Fly trap Dioecia, Hexandria Dioscorea Pentandria, Monogynia Diosma African Spirea Diospyrus Indian Date Plum Polygamia, Dioecia Octandria, Monogynia Leather wood Dirca Tetrandria, Monogynia Dipfacus Teazel Disa Gynandria, Diandria Disandra HeptandriaMonogynia Dodartia Didynamia, Angiosper. Dodecas Dodecandria, Monogy z Dodecatheon Meadia Pentandria, Monogynia Dodonæa Octandria, Monogynia Dolichos Diadelphia, Decandria Doræna Pentandria, Monogynia Didynamia, Angiosper. Dombeya Leopard's Bane Doronicum Syngenesia, Polygsuper. Dorstenia Tetrandria.Monogynia Contrayerva Draba Whitlow-grass Tetradynamia, Siliquof. Hexandria, Monogynia Dracæna Didynamia, Angiosper-Dracocepha-Dragon's Head lum mia Gynandria, Polyandria Dracontium Dragons

E

Ebenus Echinophora Echinops Ebony of Crete Prickly Parsnip Globe Thistle

Sun-dew

Echites

Drosera

Dryas

Drypis

Durio

Duroia

Duranta

Dryandra

Diadelphia, Decandria Pentandria, Digynia Syngenesia, Polygama segregata Pentandria, Monogynia

Echium

Pentandria, Pentagynia

Monadelphia, Enneandr.

Icosandria, Polygynia

Pentandria, Trigynia

Didynamia, Angiosper.

Polyadelphia, Polyandr. Hexandria, Monogynia

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GENERA. ENGLISH NAMES. CLASSES and ORDERS. Echium Viper's Bugloss Pentandria, Monogynia Eclipta Syngenesia, Polyg. Super Ehrharta Hexandria, Monogynia Ehretia Pentandria, Monogynia Ekebergia Decandria, Monogynia Elæagnus Wild Olive Tetrandria, Monogynia Elæocarpus Polyandria, Monogynia Elais Palmæ Elaeodendrum Pentandria, Monogynia Elate $\operatorname{Palm}_{\mathfrak{Z}}$ Elaterium Monoecia, Monandria Elatine Water-wort Octandria, Trigynia Elephantopus Elephant's Foot Syngenesia, Polygamia, Segregata Ellisia Pentandria, Monogynia Elymus Triandria, Digynia Embothrium Tetrandria, Monogynia Empetrum Black-berried Heath, or Dioecia, Triandria Crow berries **Epacris** Pentandria, Monogynia Ephedra Dioecia, Monadelphia Shrubby Horse-tail **Epidendrum** Gynandria, Diandria Vanilla,or Vanelloe Trailing Arbutus Decandria, Monogynia Epigæa Willow Herb, or French Octandria, Monogynia Epilobium Willow Epimedium Barren-wort Tetrandia, Monogynia Equisetum Horse-tail Cryptogamia, Filices Eranthemum Diandria, Monogynia Octandria, Monogynia Erica Heath Syngenef.Polyg.super. Erigeron Erinus Didynamia, Angiosper. Triandria, Trigynia Eriocaulon Syngenes. Polyg. neces. Eriocephalus Triandria, Monogynia Eriophorum Erithalis Pentandria, Monogynia Diadelphia, Decandria Ervum Bitter Vetch Pentandria, Digynia, Eryngo, or Sea Holly Eryngium Eryfimum Hedge Mustard Tetradynamia,Siliquosa Diadelphia, Decandria Erythrina Coral-tree

Dog's-tooth Violet

Erythronium

Erythoxylon

Escallonia Ethulia

Euclea

Hexandria, Monogynia

Pen tandria, Monogynia

Syngenef.Polyg.æqualis Dioecia, Dodecandria

Eugenia

Decandria, Trigynia

GENERA.	English Names.	CLASSES and ORDERS.
Eugenia Evolvulus Euonymus Eupatorium Euphorbia Euphrafia	Spindle-tree Hemp Agrimony Burning Thorny Plant, or Spurge Eyebright	Icosandria, Monogynia Pentandria, Tetragynia Pentandria, Monogynia Syngenes. Polyg. æqual. Dodecandria, Trigynia Didynamia, Angiosper.
Eurya Exacum Excoecaria		DodecandriaMonogyn. Tetrandria,Monogynia Dioecia, Triandria
F		
Fagara		Tetrandria, Monogynia
Fagonia Fagus Falkia	Beech -	Decandria, Monogynia Monoecia, Polyandria Hexandria, Digynia
Ferula Ferraria	Fennel Giant	Pentandria, Digynia Gynandria, Triandria
Festuca Fevillea	Fescue Grass	Triandria, Digynia Dioecia, Pentandria
Ficus	Fig	Polygamia, Polyoecia
Filago	Cotton Weed	Syngenesia. Polygamia necessaria
Flacourtia Flagellaria		Dioecia, Icofandria Hexandria, Trigynia
Forskohlea Forskera	Water Moss	Cryptogamia, Musci Decandria, Pentagynia Gynandria, Diandria
Fothergilla Fragaria	Strawberry	Polyandria, Digynia Icofandria, Polygynia
Frankenia Fraxinus	Afh	Hexandria, Monogynia
Fritillaria Fuchfia	Fritillary	Polygamia, Dioecia Hexandria, Monogynia Octandria, Monogynia
Fucus Fuirena	Wrack, or Sea-weed	Cryptogamia, Algæ Triandria, Monogynia
Fumaria Fusanus	Fumitory	Diadelphia, Hexandria Polygamia, Monoecia
G		

Gahnia Galanthus

Snow-drop

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Hexandria, Digyma Hexandria, Monogyma Galax

GENERA!	ENGLISH NAMES.	CLASSES and ORDERS.
Galax	•	Pentandria, Monogynia
Galaxia		Monadelphia, Triandria
, Galega	Goats Rue	Diadelphia, Decandria
Galenia		Octandria, Digynia
Galeopsis	Hedge Nettle	Didynamia, Gymnospr.
Galium	Lady's Bedstraw	Tetrandria, Monogynia
Galopina		Țetrandria, Digynia
Garcinia		Dodecandria, Monogyn
Gardenia	Cape Jasmine	Pentandria, Monogynia
Garidella	Fennel-Flower of Cret	e Decandria, Trigynia
Gaultheria	TT: : : T C 0 : C	Decandria, Monogynia
Gaura	Virginian Loosestrife	Octandria, Monogynia
Genipa	Ct. 1 C 1 L D	Pentandria, Monogynia
Genista	Single-feeded Broom	Diadelphia, Decandria
Gentiana	Gentian, or Fell-wort	
Geoffroya	Connelo Bill	Diadelphia, Decandria
Geranium	Crane's Bill	Monadelphia, Decandria
Gerardia .		Didynamia, Angiosper.
Geropogon Gefneria		Syngenesia, Polyg. zqua.
		Didynamia. Angiosper.
Gethyllis Geum	Aven's, or Herb Benne	Dodecandria, Monogyn
Ginora	21ven 3, 01 11c1b Benne	Doecandria, Monogyn.
Ginkgo		Planta Obscura
Gifekia		Pentandria, Pentagynia
Glabraria		Polyadelphia, Polyandr.
Gladiolus	Corn Flag	Triandria, Monogynia
Glaux		kPentandria, Monogynia
	Salt-wort	
Glechoma	Ground Ivy, or Gill	Didynamia, Gymnosper,
Gleditsia	Three-thorned Acacia	Polygamia, Dioecia
Glinus		Dodecandria, Pentagyn.
Globba		Diandria, Monogynia
Globularia	Blue Daify ·	Tetrandria, Monogynia
Gloriosa	Superb Lily	Hexandria, Monogynia
Gluta		Gynandria, Pentandria
Glycine	Carolina Kidney-bean	-Diadelphia, Decandria
Glycyrrhiza	Liquorice	Diadelphia, Decandria
Gmelina		Didynamia, Angiosper.
Gnaphalium	Cudweed	Syngenesia, Polyg. super.
Gnetum		Monoecia, Monadelphia
Gnidia		Octandria, Monogynia
Gomozia		Tetrandria, Digynia
	9	Gom-

Pentandria, Monogynia

Gynandria, Decandria

Dodecandria, Digynia

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CLASSES and ORDERS. ENGLISH NAMES. GENERA. Pentandria, Digynia GlobeAmaranth Gomphrena Tetrandria, Monogynia Gon Crpus Monadelphia, Polyandr. Gordonia Syngenesia, Polyg. frustr. Gorteria Monadelphia, Po. yandr. Goffypium Cotton Polygamia, Monoecia Gouania Diandria, Monogynia Gratiola Hedge Hyssøp Gynandria, Polyandria Grewia Polyandria, Monogynia Grias Decandria, Pentagynia Grielum Octandria, Monogynia Griflea Pentandria, Monogynia Gronovia Decandria, Monogynia Lignum Vitæ Guaiacum Octandria, Monogynia Guarea Guettarda Monoecia, Heptandria Guilandina Bonduc, or Nickar-tree Decandria, Monogynia Gundelia Syngenesia, Polygamia, fegregata Gynandria, Diandria Gunnera Gustavia Monadelphia, Polyandr. Decandria, Digynia Gyplophila Hæmanthus Blood Flower Hexandria, Monogynia Hæmatoxylum Logwood Decandria. Monogynia Halefia, Dodecandria, Monogyr. Haleria African Fly-honey-Didynamia, Angiosper. fuckle Oftandria, Tetragyria Haloragis Hamemelis Witch Hazel Tetrandria, Digynia Hamellia Pentandria, Monegynia Hartogia Tetrandria, Monogynia Hasselquistia Pentandria, Digyma Hebenstretia Didynamia, Angiosper. Hedera Ivy Pentandria,Monogynia Hedycaria Dioccia, Polyandria Tetrandria, Monogynia Hedvotis Hedysarum French Honey suckle Diadelphia, Decandria Heisteria Decandria, Monogynia Helenium Syngenesia, Polyg. supe: . Bastard Sunflower Syngenelia, Polyg. fruitr Helianthus Sun-flower

Heliconia

Helicteres

Heliocarpus

Skrew Tree

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Heliophila Heliotropium Helonias Helleborus Helvella Hemerocallis Hemiontis Heracleum Hermannia Hermas Hernandia Hernandia Herniaria Hefperis Hefperis Helborus Helopera Hibifcus Hippocratea Hippocratea Hippocratea Hippocratea Hippocratea Hippocratea Hippophae Hippophae Higpophae Hilla Holcus Hoffefloe Hellebore Hellebore Hellebore Hellebore Polyandria, Polygynia Cryptogamia, Fungi Cryptogamia, Fungi Cryptogamia, Fungi Cryptogamia, Filices Didynamia, Angiofper. Pentandria, Digynia Monoadelphia, Pentandria Polygamia, Monoecia Triandria, Digynia Pentandria, Digynia Heracium Hillia Hippophae H
Helleborus Helvella Hemerocallis Hemiontis Hemiontis Heracleum Hermannia Hermannia Hernandia Herniaria Helchera Hibifcus Hiippocratea Hippocratea Hippocratea Hippophae Hippophae Hippophae Hippophae Hippophae Hippophae Hirtella Holoßeum Hemerocallis Day Lily, or Lily Af-Hexandria, Polygamia, Filices Didynamia, Angiofper. Cryptogamia, Filices Didynamia, Angiofper. Pentandria, Digynia Monoacelphia, Polygamia, Monoecia Triandria, Monogynia Syngenefia, Polygamia, Neceffaria Triandria, Monogynia Dioecia, Tetrandria Monandria, Monogynia Dioecia, Tetrandria Pentandria, Monogynia Dioecia, Trigynia Pentandria, Trigynia Polyadelphia, Polyandr. Triandria, Trigynia Polyadelphia, Polyandr.
Hemerocallis Hemiontis Hemiontis Hemimeris Heracleum Hermannia Hernandia Hernandia Herniaria Hefperis Male's Fern Cow Parfnep Cow Parfnep Cow Parfnep Cow Parfnep Pentandria, Digynia Monoecia, Triandria Pentandria, Digynia Dame's Violet, Rocket, Tetradynamia, Siliquofa or Queen's July Flow. Heuchera Hibifcus Althea Frutex, or Syrian Monadelphia, Polyandr. Mallow Hieracium Hillia Hippia Hippocratea Hippocratea Hippocratea Hippophæ Hippophæ Hippophæ Hippophæ Hippophæ Hippophæ Hippophæ Hippophæ Hippophæ Hiræa Hipporatea Hipporatea Hippophæ Horfeshoe Vetch Horfeshoe Vetch Horfeshoe Vetch Hippophæ Hippophæ Hippophæ Hippophæ Hippophæ Horfeshoe Vetch Horfeshoe Vetch Horfeshoe Vetch Horfeshoe Hippophæ Hippophæ Horfeshoe H
Hemimeris Heracleum Hermannia Hermannia Hermas Hernandia Hernairia Hefperis Heuchera Hibifcus Hieracium Hilia Hippocratea Hippocratea Hippocratea Hippocratea Hippocratea Hippocratea Hippocratea Hippophæ Hippophæ Hippophæ Hippophæ Hiræa Hipporis Hiræa Hittella Holcus Holofteum Hopea Horfefloe Horfefloe Horfefloe Hipporatea Hittella Holcus Horfefloe Horfefloe Horfefloe Horfefloe Horfefloe Hipporatea Hipporatea Hipporatea Hipporatea Hipporatea Hippophæ Hippophæ Hippophæ Hippophæ Hippophæ Hippophæ Hiræa Hipporatea Hipporatea Hipporatea Hippophæ Hiræa Hipporatea Hipporatea Hippophæ Hiræa Hiræa Hiræa Hirtella Holcus Holofteum Hopea Horfefloe Horfefloe Holofteum Hopea Didynamia, Angiofper. Pentandria, Digynia Monoecia, Tetradria Monogynia Polyadelphia, Polyandr. Didynamia, Angiofper. Pentandria, Digynia Honoecia, Tetradria Monoecia, Tetrandria Monandria, Monogynia Polyadelphia, Polyandr. Didynamia, Angiofper. Pentandria, Digynia Monoecia Triandria, Trigynia Polyadelphia, Polyandr.
Heracleum Hermannia Hermannia Hernandia Hernandia Herniaria Herniaria Hesperis Or Queen's July Flow. Heuchera Hibiscus Hieracium Hilia Hippocratea Hippocratea Hippocratea Hippophæ Hippophæ Hippophæ Hippophæ Hiræa Hipporis Hiræa Hindian Hingia Hiræa Hindian Hingia Holcus Hindian Hingia Holcus Hindian Hingia Holcus Hingia Holcus Hindian Hingia Holcus Hindian Hingia Holcus Hindian Hindian Hingia Holcus Hindian Holcus Holosteum Hopea Pentandria, Digynia Pentandria, Digynia Monadelphia, Polyamia, Monogynia Heracium Honoacia, Monogynia Decandria, Trigynia Pentandria, Monogynia Polyadelphia, Polyandr.
Hernandia Herniaria Herniaria Hesperis Dame's Violet, Rocket, Tetradynamia, Siliquosa or Queen's July Flow. Heuchera Hibiscus Althea Frutex, or Syrian Monadelphia, Polyandr. Mallow Hieracium Hillia Hippia Hippocratea Hippocratea Hippocratea Hippomane Hippophæ Hippophæ Hippophæ Hippophæ Hippopha Hiræa Hiræa Hirtella Holcus Holosteum Holosteum Hopea Monoecia, Triandria Monogynia Monadelphia Dioecia, Tetrandria Monandria, Monogynia Decandria, Trigynia Pentandria, Trigynia Polyadelphia, Polyandr.
Hesperis Oame's Violet, Rocket, Tetradynamia, Siliquosa or Queen's July Flow. Heuchera Hibiscus Althea Frutex, or Syrian Monadelphia, Polyandr. Mallow Hieracium Hillia Hippia Hippocratea Hippocratea Hippocratea Hippomane Hippomane Hippophæ Hippophæ Hippophæ Hiræa Hirtella Holcus Holosteum Hopea Dame's Violet, Rocket, Tetradynamia, Siliquosa Pentandria, Digynia Pentandria, Polyandr. Pentandria, Polygamia, Monogynia Monandria, Monogynia Dioecia, Tetrandria Monandria, Monogynia Decandria, Trigynia Pentandria, Monogynia Triandria, Trigynia Polyadelphia, Polyandr.
Heuchera Hibifcus Althea Frutex, or Syrian Monadelphia, Polyandr. Mallow Hieracium Hillia Hippia Hippocratea Hippocratea Hippomane Hippophae Hippophae Hippophae Hippophae Hippouris Hiræa Hirtella Holcus Holofteum Hopea Pentandria, Digynia Monadelphia, Polygamia, Monogynia Syngenefia, Polygamia, Neceffaria Triandria, Monogynia Diadelphia, Decandria Monandria, Monogynia Dioecia, Tetrandria Monandria, Monogynia Pentandria, Trigynia Polygamia, Monoecia Triandria, Trigynia Polyadelphia, Polyandr.
Hibifcus Althea Frutex, or Syrian Monadelphia, Polyandr. Mallow Hieracium Hillia Hippia Hippocratea Hippocratea Hippomane Hippophae H
Hillia Hippia Syngenesia, Polygamia, Necessaria Triandria, Monogynia Hippocratea Hippocrepis Horseshoe Vetch Hippomane Hippophæ Hippophæ Hippophæ Hippuris Hiræa Hirtella Holcus Holosteum Hopea Hillia Hexandria, Monogynia Hexandria, Monogynia Dioecia, Tetrandria Monandria, Monogynia Decandria, Trigynia Pentandria, Monogynia Triandria, Trigynia Polygamia, Trigynia Polyadelphia, Polyandr.
Hippia Syngenesia, Polygamia, Necessaria Triandria, Monogynia Hippocrepis Hippomane Hippomane Hippophæ Hippophæ Hippuris Hiræa Hirtella Holcus Holosteum Hopea Syngenesia, Polygamia, Necessaria Triandria, Monogynia Diadelphia, Decandria Monoecia, Monadelphia Dioecia, Tetrandria Monandria, Monogynia Pentandria, Trigynia Polygamia, Monoecia Triandria, Trigynia Polyadelphia, Polyandr.
Hippocrepis Horseshoe Vetch Hippomane Manchineel Monoecia, Monadelphia Hippophæ Sea Buck-thorn Hippuris Monandria, Monogynia Hiræa Decandria, Trigynia Hirtella Pentandria, Monogynia Holcus Indian Millet Polygamia, Monoecia Holosteum Hopea Polyadelphia, Polyandr.
Hippomane Manchineel Monoecia, Monadelphia Dioecia, Tetrandria Dioecia, Tetrandria Monandria, Monogynia Hiræa Decandria, Trigynia Holcus Indian Millet Polygamia, Monoecia Holosteum Triandria, Trigynia Polyadelphia, Polyandr.
Hippophæ Sea Buck-thorn Hippuris Monandria, Monogynia Hiræa Decandria, Trigynia Hirtella Pentandria, Monogynia Holcus Indian Millet Polygamia, Monoecia Holosteum Triandria, Trigynia Polyadelphia, Polyandr.
Hippuris Hiræa Decandria, Monogynia Decandria, Trigynia Pentandria, Monogynia Polygamia, Monogynia Holos Holosteum Hopea Monandria, Monogynia Polygamia, Monoecia Triandria, Trigynia Polyadelphia, Polyandr.
Hiræa Decandria, Trigynia Hirtella Pentandria, Monogynia Holcus Indian Millet Polygamia, Monoecia Holosteum Triandria, Trigynia Hopea Polyadelphia, Polyandr.
Hirtella Pentandria, Monogynia Holcus Indian Millet Polygamia, Monoecia Holosteum Triandria, Trigynia Hopea Polyadelphia, Polyandr.
Holosteum Triandria, Trigynia Hopea Polyadelphia, Polyandr.
Hopea Polyadelphia, Polyandr.
The District Manager
Hordeum Barley Triandria, Digynia Horminum Pyrenxan Clary Didynamia, Gymnosper.
Horminum Pyrenxan Clary Didynamia, Gymnosper. Hortonia Water Milfoil, or Water Pentandria, Monogynia Violet
Hovenia Pentandria, Monogynia
Houstonia Tetrandria, Monogynia
Houtuynia Polyandria, Polygynia
Hudsonia Dodecandria, Monogyn.
Hugonia Monadelphia, Decandria
Humulus Hop Dioecia, Pentandria Hura

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
Time	Sand Box-Tree	Monoecia, Monadelphia
Hura Hyacinthus	Hyacinth	Hexandria, Monogynia
Hydnum	11 yucinen	Cryptogamia, Fungi
Hydrangea		Decandria, Monogynia
Hydrastis	Yellow Root	Polyandria, Polygynia
Hydrocharis	Frog's-bit	Dioecia, Enneandria
Hydrocotyle	Water Naval-wort	Pentandria, Digynia
Hydrolea		Pentandria, Digynia
Hydrophylax		Tetrandria, Monogynia
Hydrophyl-	Water Leaf	Pentandria, Monogynia
lum		,
Hymenæa	Locust-tree, or Courbaril	Decandria, Monogynia
Hyobanche		Didynamia, Anjiosper.
Hyofcyamus	Henbane	Pentandria, Monogynia
Hyoferis		Syngenesia, Polyg.æqu.
Hypecoum		Tetrandria, Digynia
Hypericum	St. John's Wort	Polyadelphia, Polyand.
Hypnum		Cryptogamia, Musci
Hypochæris		Syngenesia. Polyg æqu.
Hypoxis		Hexandria, Monogynia
Hystopus	Hyssop	Didy namia, Gymnosper
7 1	*	•
I		•
I Jacquinia		Pentandria, Monogynia
I Jacquinia Jambolifera		Pentandria, Monogynia Octandria, Monogynia
Jambolifera	Sheep Scabious	Octandria, Monogynia
Jambolifera Jasione	Sircep Scabious	Octandria, Monogynia Syngenefia, Monogamia
Jambolifera Jasione Jasminum	Sheep Scabious Jasmine Cassava	Octandria, Monogynia Syngenefia, Monogynia Diandria, Monogynia
Jambolifera Jasione	Jasmine	Octandria, Monogynia Syngenefia, Monogynia Diandria, Monogynia Monoecia, Monadelphia
Jambolifera Jafione Jafininum Jatropha Iberis	Jasmine Cassava Candy Tust, or Sciatic	Octandria, Monogynia Syngenesia, Monogynia Diandria, Monogynia Monoecia, Monadelphia Tetradynamia, Silicu- losa
Jambolifera Jafione Jafininum Jatropha	Jasmine Cassava Candy Tust, or Sciatic Cress	Octandria, Monogynia Syngenefia, Monogynia Diandria, Monogynia Monoecia, Monadelphia Tetradynamia, Silicu- lofa Pentandria, Monogynia
Jambolifera Jafione Jafminum Jatropha Iberis Ignatia	Jasmine Cassava Candy Tust, or Sciatic	Octandria, Monogynia Syngenefia, Monogynia Diandria, Monogynia Monoecia, Monadelphia Tetradynamia, Silicu- lofa Pentandria, Monogynia Tetrandria, Tetragynia
Jambolifera Jafione Jafminum Jatropha Iberis Ignatia	Jasmine Cassava Candy Tust, or Sciatic Cress Holly	Octandria, Monogynia Syngenesia, Monogynia Diandria, Monogynia Monoecia, Monadelphia Tetradynamia, Siliculosa Pentandria, Monogynia Tetrandria, Tetragynia Pentandria, Monogynia
Jambolifera Jafione Jafininum Jatropha Iberis Ignatia Ilex Illecebrum	Jasmine Cassava Candy Tust, or Sciatic Cress Holly Mountain Knot Grass	Octandria, Monogynia Syngenefia, Monogynia Diandria, Monogynia Monoecia, Monadelphia Tetradynamia, Silicu- lofa Pentandria, Monogynia Tetrandria, Tetragynia
Jambolifera Jafione Jafininum Jatropha Iberis Ignatia Ilex Illecebrum Illicium Impatiens	Jasmine Cassava Candy Tust, or Sciatic Cress Holly Mountain Knot Grass Balsam, or Female Balsamine	Octandria, Monogynia Syngenesia, Monogynia Diandria, Monogynia Monoecia, Monadelphia Tetradynamia, Silicu- losa Pentandria, Monogynia Tetrandria, Tetragynia Pentandria, Monogynia Polyandria, Polygynia Syngenesia, Monogamia
Jambolifera Jafione Jafininum Jatropha Iberis Ignatia Ilex Illecebrum Illicium Impatiens Imperatoria	Jasmine Cassava Candy Tust, or Sciatic Cress Holly Mountain Knot Grass Balsam, or Female Balsamine Masterwort	Octandria, Monogynia Syngenesia, Monogynia Diandria, Monogynia Monoecia, Monadelphia Tetradynamia, Silicu- losa Pentandria, Monogynia Tetrandria, Tetragynia Pentandria, Monogynia Polyandria, Polygynia Syngenesia, Monogamia
Jambolifera Jafione Jafininum Jatropha Iberis Ignatia Ilex Illecebrum Illicium Impatiens Imperatoria Indigofera	Jasmine Cassava Candy Tust, or Sciatic Cress Holly Mountain Knot Grass Balsam, or Female Balsamine	Octandria, Monogynia Syngenesia, Monogynia Diandria, Monogynia Monoecia, Monadelphia Tetradynamia, Siliculosa Pentandria, Monogynia Tetrandria, Tetragynia Pentandria, Monogynia Polyandria, Polygynia -Syngenesia, Monogamia Pentandria, Digynia Diadelphia, Decandria
Jambolifera Jafione Jafininum Jatropha Iberis Ignatia ' Ilex Illecebrum Illicium Impatiens Imperatoria Indigofera Inocarpus	Jasmine Cassava Candy Tust, or Sciatic Cress Holly Mountain Knot Grass Balsam, or Female Bal samine Masterwort Indigo	Octandria, Monogynia Syngenesia, Monogynia Diandria, Monogynia Monoecia, Monadelphia Tetradynamia, Siliculosa Pentandria, Monogynia Tetrandria, Tetragynia Pentandria, Monogynia Polyandria, Polygynia Syngenesia, Monogamia Pentandria, Digynia Diadelphia, Decandria Decandria, Monogynia
Jambolifera Jafione Jafione Jafininum Jatropha Iberis Ignatia Ilex Illecebrum Illicium Impatiens Imperatoria Indigofera Inocarpus Inula	Jasmine Cassava Candy Tust, or Sciatic Cress Holly Mountain Knot Grass Balsam, or Female Balsamine Masterwort Indigo Elacampane	Octandria, Monogynia Syngenesia, Monogynia Diandria, Monogynia Monoecia, Monadelphia Tetradynamia, Siliculosa Pentandria, Monogynia Tetrandria, Tetragynia Pentandria, Monogynia Polyandria, Polygynia Syngenesia, Monogamia Diadelphia, Decandria Decandria, Monogynia Syngenesia, Polygynia Syngenesia, Polygynia
Jambolifera Jafione Jafininum Jatropha Iberis Ignatia ' Ilex Illecebrum Illicium Impatiens Imperatoria Indigofera Inocarpus Inula Ipomoea	Jasmine Cassava Candy Tust, or Sciatic Cress Holly Mountain Knot Grass Balsam, or Female Bal samine Masterwort Indigo	Octandria, Monogynia Syngenesia, Monogynia Diandria, Monogynia Monoecia, Monadelphia Tetradynamia, Siliculosa Pentandria, Monogynia Tetrandria, Tetragynia Pentandria, Monogynia Polyandria, Polygynia Syngenesia, Monogamia Diadelphia, Decandria Decandria, Monogynia Syngenesia, Polyg, super. Pentandria, Monogynia
Jambolifera Jafione Jafione Jafininum Jatropha Iberis Ignatia Ilex Illecebrum Illicium Impatiens Imperatoria Indigofera Inocarpus Inula	Jasmine Cassava Candy Tust, or Sciatic Cress Holly Mountain Knot Grass Balsam, or Female Balsamine Masterwort Indigo Elacampane Quamoclit	Octandria, Monogynia Syngenesia, Monogynia Diandria, Monogynia Monoecia, Monadelphia Tetradynamia, Siliculosa Pentandria, Monogynia Tetrandria, Tetragynia Pentandria, Monogynia Polyandria, Polygynia Syngenesia, Monogynia Diadelphia, Decandria Decandria, Monogynia Syngenesia, Polygynia Syngenesia, Polygynia Syngenesia, Polygynia Dioccia, Pentandria
Jambolifera Jafione Jafione Jafine Jafine Jatropha Iberis Ignatia Ilex Illecebrum Illicium Impatiens Imperatoria Indigofera Inocarpus Inula Ipomoea Irefine	Jasmine Cassava Candy Tust, or Sciatic Cress Holly Mountain Knot Grass Balsam, or Female Balsamine Masterwort Indigo Elacampane	Octandria, Monogynia Syngenesia, Monogynia Diandria, Monogynia Monoecia, Monadelphia Tetradynamia, Siliculosa Pentandria, Monogynia Tetrandria, Tetragynia Pentandria, Monogynia Polyandria, Polygynia Syngenesia, Monogamia Diadelphia, Decandria Decandria, Monogynia Syngenesia, Polyg, super. Pentandria, Monogynia

GENERA.

ENGLISH NAMES.

CLASSES and ORDERS.

Ischæmum
Isnardia
Isoëtis
Isopyrum
Itea
Iva
Juglans
Juncus

Jungermannia Jungia Juniperus Juffieua Jufficia Jufficia Jxia

Ixora

Jesuits Bark Tree Wallnut Rush

Juniper

Malabar Nut

Polygamia, Monoecia Tetrandria, Monogynia Cryptogamia, Filices Polyandria, Polygynia Pentandria, Monogynia Monoecia, Pentandria Monoecia, Polyandria Hexandria, Monogynia Cryptogamia, Algæ Syngenef. Polyg. fegreg. Dioecia, Monadelphia Decandria, Monogynia Triandria, Monogynia Tetrandria, Monogynia

Kalmia
Kæmpferia
Kiggelaria
Kleinhovia
Knautia
Knoxia
Koenigia
Krameria
Kunhia

Kyllinga

Dwarf American Laurel Decandria, Monogynia

Decandria, Monogynia Monandria, Monogynia Dioecia, Decandria Gynandria, Decandria Tetrandria, Monogynia Triandria, Trigynia Tetrandria, Monogynia Tetrandria, Monogynia Pentandria, Monogynia Triandria, Monogynia

Lachenalia Lachnæa Lactuca

Laetia Lagerstroemia

Lagoecia Lagurus Lamium

Lantana Lapfana Laferpitium Lathræa Lathyrus Lavendula

Lavatera

Lettuce

Bastard Cumin Hare's Tail Grass Dead Nettle, or Arch-

angel American Viburnum Nipple-wort Lafer-wort

Chichling Vetch Lavender Hexandria, Monogynia Octandria, Monogynia Syngenesia, Polygaqu. Polyandria, Monogynia Polyandria, Monogynia Pentandria, Monogynia Triandria, Digynia Didynamia, Gymnosper.

Didynamia, Angiosper. Syngenesia, Polyg æqu. Pentandria, Digynia Didynamia, Angiosper. Diadelphia, Decandria Didynamia, Angiosper. Monadelphia Polyand. Laugieria

GENERA.	ENGLISH NAMES.
Laugieria	
Laurus	Bay
Lawfonia	•
Leea	
Lechea	
Lecythis	
Ledum	Marsh Cistus, or wild
	Rosemary
Lemna	Duck Meat
Leontice	Lion's Leaf
Leontodon	Dandelion
Leonurus	Lion's Tail
Lepidium	Dittander, or Pepper-
1	wort
Lerchea	
Leucojum	Greater Snow-drop
Leyfera	
Lichen	Liver-wort
Licuala	
Ligusticum	Lovage
Ligustrum	Privet
Lilium	Lily
Limeum	
Limodorum	
Limonia	
Limofella	Least Water Plantain
Lindernia	
Linconia	
Lindera	
Linnæa	
Linum	Flax
Liparia	
Lippia	
Liquidamber	Sweet Gum
Liriodendrum	Tulip Tree
Lifianthus	. C
Lithospermun	Gromwell
Litt rella Lobelia	Cardinal Flower
	Cardinal Plower
Loeslingia Loeselia	
Lolium	Darnel, or Rye-grass
Lonchites	Rough Spleen-wort
Lonicera	Honeysuckle
T	rione y therete

Loofa

Pentandria, Monogynia Enneandria, Monogynia Octandria, Monogynia Monoecia, Pentandria Triandria Trigynia Polyandria, Monogynia Decandria, Monogynia

CLASSES and ORDERS.

Monoecia, Diandria Hexandria, Monogynia Syngenef.Polyg.æqualis Didynamia,Gymnofper. Tetradynamia,Siliculofa

Monadelphia, Pentandr. Hexandria, Monogynia Syngenes. Polygsuperst. Cryptogamia, Algæ Hexandria, Monogynia Pentandria, Digynia Diandria, Monogynia Hexandria, Monogynia Hertandria, Digynia Gynandria, Diandria Decandria, Monogynia Didynamia, Angiosper. Didynamia, Angio!per. Pentandria, Digynia Hexandria, Monogynia Didynamia, Angiosper Pentandria, Pentagynia Diadelphia, Decandria Didynamia, Angiosper. Monoccia, Polyandria Polyandria, Polygynia Pentandria, Monogynia Pentandria, Monogynia Monoecia, Tetrandria Syngenesia, Monogamia Triandria, Monogynia Didynamia, Angiosper. Triandria, Digynia Cryptoganiia, Filices Pentandria, Monogynia Polyandria, Monogynia

Loranthus

GENERA. ENGLISH NAMES. CLASSES and ORDERS.

Loranthus Lotus Ludwigia	Bird's Foot Trefoil	Hexandria, Monogynia Diadelphia, Decandria Tetrandria, Monogynia
Lunaria	Moon-wort, Sattin Flow er, or Honesty	-Tetradynamia, Siliculof.
Lupinus	Lupine	Diadelphia, Decandria
Lychnis	Campion	Decandria, Pentagynia
Lycium	Box-thorn	Pentandria, Monogynia
Lycoperdon		Cryptogamia, Fungi
Lycopodium	Wolf's Claw Moss	Cryptogamia, Musci
Lycopsis		Pentandria, Monogynia
Lycopus	Water Horehound	Decandria, Monogynia
Lygeum	Hooded Matweed	Triandria, Monogynia
Lysimachia	Loosestrife	Pentandria, Monogynia
Lythrum	Willow Herb	Dodecandria, Monogyn

M

	Dioecia Triandria
	Pentandria, Monogynia .
	G.
Laurel-leavedTulip-tre	Polyandria, Polygynia
Ť.	Pentandria, Pentagynia
	Monadelphia, Polyandr.
Baftard Mallow	Monadelphia, Polyandr.
Barbadoes Cherry	Decandria, Trigynia
Mallow	Monadelphia,Polyandr.
Mammee	Polyandria, Monogynia
	Tetandria, Monogynia
Mango-tree	Pentandria, Monogynia
0	Polygamia, Monoecia
	Didynamia, Angiosper.
Indian Arrow-root	Monandria, Monogynia
	Polyandria Polygynia
	Cryptogamia Algæ
	Dioecia, Enneandria
Horehound	Didynamia, Gymnosper.
	Cryptogamia, Filices
	Didynamia, Angiosper.
	Hexandria, Monogynia
Feverfew	Syngenef. Polyg. super.
	Appendix
	Appendix
Climbing African Af-	Hexandria, Trigynia
	Medicago Medicago
	Barbadoes Cherry Mallow Mammee Mango-tree Indian Arrow-root

ENGLISH NAMES. CLASSES and ORDERS. GENERA. Snail and Moon Trefoil Diadelphelia, Decandria Medicago Polyadelphia, Polyandr. Melaleuca Syngenesia, Polygamia Melamponecessaria dium Didynamia, Angiosper. Cow-wheat Melampyrum Hexandria, Trigynia Decandria, Monogynia Melanthium Melastoma American Goofeberry Decandria, Monogynia Melia Bead-tree Melianthus Didinamia, Angiosper. Honey Flower Triandria, Digynia Melica Octandria, Monogynia Melicocca Melissa Baum Didynamia, Gymnosper. Melittis Baum-leaved Archan-Didynamia, Gymnosper. gle or Bastard Baum Melochia Monadelphia, Pentandr. Melondinus Pentandria, Digynia Melotheria Small creeping Cucum-Triandria, Monogynia ber Octandria, Monogynia Memecylon Pentandria, Monogynia Menais Menispermum Moon Sced Dioecia, Dodecandria Mentha Mint Didynami**a,**Gymnofper. Mentzelia Polyandria, Monogynia Bog-bean, or Marsh Pentandria, Monogynia Menyanthes Trefoil Mercury Mercurialis Dioecia, Enneandria Mesembryan- Fig Marygold Icosandria, Pentagynia themum Messerschmi-Pentandria, Monogynia dia Mespilus Medlar Icosandria, Pentagynia Mesua Indian Rose Chesnut MonadelphiaPolyandria Michelia Polyandria, Polygynia Bastard Cudweed Syngenef. Polyg.necef. Micropus Milium Millet Triandria, Digynia Milleria Syngenef. Polyg.necef. Millingtonia Didynamia, Angiosper. Mimofa Sentsiive Plant Polygamia, Monoecia. Mimulus Monkey Flower Didynamia, Angiosper. Octandria, Digynia Triandria, Trigynia Mimusops

Marvel of Peru

Pentandria, Monogynia

Tetrandria, Monogynia

Mitella

Minuartia Mirabilis

Mitchella

GENERA.	English Names.	CLASSES and ORDERS.
Mitella	Baftard American Sanicle	Decandria, Digynia
Mniarum		Monandria, Digynia
Mnium	3.5	Cryptogamia, Musci
Moehringia Molluga	MountainChickweed	Octandria, Digynia
Mollugo Moluccella	Molucca Baum	Triandria, Trigynia
Momorica	Male Balfam Apple	Didynamia, Gymnosper
Monarda	Oswego Tea	Monoecia, Syngenesia Diandria, Monogynia
Monetia	6	Tetrandria, Monogynia
Monnieria		Diadelphia, Pentandria
Monotropa	1	Decandria, Monogynia
Monfonia	The I	Polyadelphia, Dodecand
Montia	Blinks	Triandria, Trigynia
Montinia Mormo		Dioecia, Tetrandria
Moræa Morina		Triandria, Monogynia
Morinda		Diandria, Monogynia
Morifonia		Pentandria, Monogynia Polyandria, Monogynia
Morus	Mulberry Tree	Monoecia, Tetrandria
Mucor		Cryptogamia, Fungi
Mullera		Diadelphia, Decandria
Munchhausia		Polyadelphia, Polyandr.
Muntingia		Polyandria, Monogynia
Murraya	mi	Decandria, Monogynia
Musa Mussænd a	Plantain-tree	Polyandria, Monoecia
Mutifia		Pentandria, Monogynia
Myagrum	Gold of Pleasure	Syngenesia, Polyg. super Tetradynamia, Siliculosa
Myginda	Gold of Fichiale	Tetrandria, Tetragynia
Myofotis	Mouse-ear Scorpion- grass	Pentandria Monogynia
Myofurus	Mouse-tail	Pentandria, Monogynia
Myrica	Candleberry Myrtle- Gale, or Sweet Willow	Dioecia, Tetrandria
Myriophyl- lum	Water Milfoil	Monoecia, Polyandria
Myrofma		Monandria, Monogynia
Myrfine '	African Box-tree	Pentandria, Monogynia
Myroxylon		Decandria, Monogynia
Myrtus	Myrtle	Icolandria, Monogynia
Myristica		Polyandria, Monogynia

GENERA. ENGLISH NAMES. CLASSES and ORDERS.

N

Dioecia, Monandria Najas Pentandria, Digynia Hexandria, Monogynia Nama Nandina Dioecia, Monadelphia Napæa Hexandria, Monogynia Daffodil Narcissus Triandria, Monogynia Nardus Pentandria, Monogynia Nauclea Gynandria, Tetrandria Nepenthes Didynamia, Gymnosper. Nepeta Catmint, or Nep Monoecia, Pentandria Nephelium Oleander, or Rose Bay Pentandria, Monogynia Nerium Decandria, Decagynia Neurada Pentandria, Monogynia Tobacco Nicotiana FennelFlower, or Devil Polyandria, Pentagynia Nigella in a Bush Pentandria, Monogynia Nigrina Nipa Monoecia, Monandria Nissolia Diadelphia, Decandria Dodecandria, Monogyn. Nitraria Pentandria, Monogynia Nolana Arabian Jasmine Water Lily Diandria, Monogynia Nyctanthes Polyandria, Monogynia Nymphæa Polygamia, Dioccia Nyffa Tupelo Tree C Didynamia, Angiosper. Obolaria Ochna Polyandria, Monogynia Bafil Didynamia, Gymnosper. Ocymum Oedera Syngenesia, Polygamia, legregata Water Drop-wort Pentandria, Digynia Oenanthe Octandria, Monogynia Tree Primrose Oenothera Olax Triandria, Monogynia Tetrandria, Monogynia Oldenlandia Olea Olive Diandria, Monogynia Monoecia, Triandria Monoecia, Triandria Olyra Omphalea Onoclea Sensible Polypody Cryptogamia, Filices Ononis Rest Harrow Diadelphia, Decandria Syngenesia, Polygæqua. Onopordum WoollyThistle Pentandria, Monogynia Onoima

Ophioglossum Adder's Tongue

Cryptogamia, Filices

Ophior-

GENERAL ENGLISH NAMES. CLASSES and ORDERS.

		CERSSES and ORDERS.
Ophiorrhiza Ophioxylon	Serpent's Tongue	Pentandria, Monogynia Polygamia, Monoecia
Ophira (Octandria, Monogynia
Ophrys	Twyblade	Gynandria, Diandria
Orchis	1 wyblado	Gynandria, Diandria
Origanum	Wild Marjorum	
Orixa	Wild Waljordin	Didynamia, Gymnosper.
	Con a C Dashiam	Tetrandria, Monogynia
Ornithogalum		Hexandria, Monogynia
Ornithopus	Bird's Foot	Diadelphia, Decandria
Orobanche	Broom Rape	Didynamia, Angiosper.
Orobus	Bitter Vetch	Diadelphia, Decandria
Orontium	Floating Arum	Hexandria, Monogynia
Ortegia	9	Triandria, Monogynia
Oryza	Rice	Hexandria, Digynia
Olbeckia		Octandria, Monogynia
Ofmites		Syngenesia, Polyg. frustr.
Ofmunda	OfmundRoyal.orFlow	-Cryptogamia, Filices
	ering Fern	7,1-8,
Oftenfoermum		-Syngenesia, Polygamia
	themum	necessaria
Ofvris	Poet's Cassia	Dioecia, Triandria
Othera		Tetrandria, Monogynia
Othonna	African Ragwort	Syngenesia, Polygeneces.
Ovieda	TITTOUT TRUE IT OF	Didynamia, Angiosper.
	Wood Sornal	Decandria, Pentagynia
Oxalis	Wood Sorrel	Decandina, i entagyma

Ovicua		Didy Hamila, 1111glospes.
Oxalis	Wood Sorrel	Decandria, Pentagynia
P		
Pæderota		Diandria, Monogynia
Pæderia		Pentandria, Monogynia
Pæonia	Pæony	Polyandria, Digynia
Pallafia		Dodecandria, Trigynia
Panax	Ginfeng	Polygamia, Dioecia
Pancratium	Sea Daffodil	Hexandria, Monogynia
Pandanus		Dioecia, Monandria
Panicum	Panic Grass	Triandria, Digynia
Papaver	Рорру	Polyandria, Monogynia
Parietaria	Pellitory	Polygamia, Monoecia
Paris	Herb True-love, or One Berry	Octandria, Tetragynia
Parkinfonia	,	Decandria, Monogynia
Parnassia	Glass of Parnassus	Pentandria, Tetragynia
Parthenium	Bastard Feversew	Monoecia, Pentandria
Paspalum		Triandria, Digynia

Passe-

GENERA.	English Names	s. Classes and Orders.
Passerina	Sparrow-wort	Octandria, Monogynia
Passistora	Passion Flower	Gynandria, Pentandria.
Pastinaca	Parinep	Pentandria, Digynia
Patagonula	^	Pentandria, Monogynia
Pavetta		Tetrandria, Monogynia
Paulinia		Octandria, Trigynia
Pectis		Syngenesia, Polyg. super.
Pedalium		Didynamia, Angiosper.
Pedicularis	Rattle Coxcomb,	
	Loufe-wort	, , , ,
Peganum '	Wild Syrian Rue	Dodecandria, Monogya.
Peltaria	, , , , , , , , , , , , , , , , , , , ,	Tetradynamia, Siliculofa
Penæa		Tetrandria, Monogynia
Pentapetes		Monadelphia, Dodecand.
Penthorum		Decandria, Pentagynia
Peplis	Water Purslane	Hexandria, Monogyaia
Perdicium		Syngenesia, Polyg super.
Perilla		Didynamia, Gymnosper.
Periploca	Virginian Silk	Pentandria, Digynia
Pergularia	3	Pentandria, Monogynia
Petesia		Tetrandria, Monogynia
Petiveria	Guinea-hen Weed	
Petrea		Didynamia, Angiosper.
Peucedanum	Hog's Fennel, or phur-wort	Sul-Pentandria, Digynia
Peziza	Cup Mushroom	Cryptogamia, Fungi
Phaca	Bastard Milk Vetc	
Phalaris	Canary Grass	Triandria, Trigynia
Phallus	Stink-horns	Cryptogamia, Fungi
Pharnaceum		Pentandria, Trigynia
Pharus		Monoecia, Hexandria
Phascum		Cryptogamia, Musci
Phafeolus	Kidney-bean	Diadelphia, Decandria
Phellandrium	·	Pentandria, Digynia
Philadelphus	Mock Orange	Icosandria, Monogynia
Phillyrea	Mock Privet	Diandria, Monogynia
Phleum	Cat's-tail Grass	Triandria, Digynia
Phlomis	Jerusalem Sage	Didynamia, Gymnosper.
Phiox	Lychnidea, or bat Lychnis	tardPentandria, Monogynia
Phænix	CommonPalm,orI	Date Palmæ
Phormium	1	Hexandria, Monogynia
	U.	

GENERA. ENGLISH NAMES. CLASSES and ORDERS-

Phryma Didynamia, Gymnosper. Phylica Bastard Alaternus Pentandria, Monogynia Monoecia, Triandria Philianthus Sea-fide Laurel Phyllachne Monoecia, Monandria Bastard Hare's-ear Phyllis Pentandria, Digynia Physalis Alkekengi, or Winter Pentandria, Monogynia Cherry Phyteuma Rampions Pentandria, Monogynia American NightshadeDecandria, Decagynia Phytolacca Picris Syngenesia, Polyg.æqua. Pilularia PepperGrass Cryptogamia, Filices Burnet Saxifrage Pimpinella Pentandria, Digynia Pinguicula Butter-wort Diandria, Monogynia Pinus Pine Tree Monoecia, Monadelphia Piper Pepper Diandria, Trigynia Piscidia Diadelphia, Decandria Pistacia Pistacia Nut Dioecia, Pentandria Pisonia Fingrigo Polygamia, Dioecia Pistia Gynandria, Hexandria Pisum Pea Diadelphia, Decandria Plantago Plantain Tetrandria, Monogynia Monoecia, Polyandria Plane Tree Platanus Plectronia Pentandria, Monogynia Plinia Polyandria, Monogynia Plukenetia Monoecia, Monadelphia Plumbago Lead-wort Pentandria, Monogynia Plumeria Red Jasmine Pentandria, Monogynia Poa Triandria, Digynia Podophyllum Duck's-Foot, or MayPolyandria, Monogynia Poinciana BarbadoesflowerfenceDecandria, Monogynia Pentandria, Monogynia Greek Valerian Polemonium Tuberose .Polyanthes Hexandria, Monogynia Pollia Hexandria, Monogynia Triandria, Trigynia Polycarpon Triandria, Monogynia Polycnemum Milk-wort Diadelphia, Octandria Polygala Octandria, Trigynia Polygonum Knot-grass Syngenesia, Polyg. neces. Polymnia ${f Polypodium}$ Polypody Cryptogamia, Filices Tetrandria, Monogynia Carolina Flax Polypremum Golden Maiden-hair Cryptogamia, Musci Polytrichum Pommereulla Triandria, Monogynia Pontederia Hexandria, Monogynia

Popu-

5

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.	
Populus	Poplar	Dioecia, Octandria	
Porana	1 0 1 1 1	Pentandria, Monogynia	
Porella		Cryptogamia, Musci	
Portlandia		Pentandria, Monogynia	
Portulaça	Purflane	Dodecandria, Monogyn.	
Potamogiton	Pond-weed	Tetrandria, Tetragynia	
Potentilla	Cinquefoil	Icosandria, Polygynia	
Poterium	Burnet	Monoecia, Polyandria	
Pothos		Gynandria, Polyandria	
Prasium	ShrubbyHedge-Nettle	e Didynamia, Gymnosper.	
Prenanthes	Wild Lettuce	Syngenesia, Polyg. æqua.	
Premna		Didynamia, Angiosper.	
Primula	Primrofe	Pentandria, Monogynia	
Prinos	Winter Berry	Hexandria, Monogynia	
Prockia	*	Polyandria, Monogynia	
Proferpinaca		Triandria, Trygynia	
Prosopis		Decandria, Monogynia	
Protea	Silver-tree	Tetrandria, Monogynia	
Prunella	Self heal	Didynamia, Gymnosper.	
Prunus	Plum-tree	Icofandria, Monogynia	
Pfidium	Guayava, orBay Plum	Icofandria, Monogynia	
Pforalea		Diadelphia, Decandria	
Pfychotria		Pentandria, Monogynia	
Ptelea	Shrub Trefoil	Tetrandria, Monogynia	
Pteris	Brakes, orFemaleFerr	Cryptogamia, Filices	
Pterocarpus		Diadelphia, Decandria	
Pteronia		Syngenesia, Polyg.æqua.	
Pulmonaria	Lung-wort	Pentandria, Monogynia	
Punica	Pomegranate	Icosandria, Monogynia	
Pyrola	Winter Green	Decandria, Monogynia	
Pyrus	Pear	Icosandria, Pentagynia	
Q			
Quaffia		Decandria, Monogynia	
Quercus	Oak	Monoecia, Polyandria	
Queria	Ott R	Tetrandria, Trigynia	
Quisqualis		Decandria, Monogynia	
Canquans		Detailer in, infollogy in a	
R			
Rajania		Dioecia, Hexandria	
Randia			
Ranunculus	Crowfoot	Pentandria, Monogynia	
Patricular	U ₃	Polyandria, Polyginia	
	V 3	Rapha-	

GENERA. ENGLISH NAMES. CLASSES and ORDERS.

Raphanus	Radish	Tetradynamia, Siliquosa
Rauvolfia		Pentandria, Monogyina
Reaumuria		Polyandria, Pentagynia
Renealmia		Monandria, Monogynia
Refeda	Bastard Rocket	Dodecandria, Trigynia
Restio		Dioecia, Triandria
Retzia		Pentandria, Monogynia
Rhacoma		Tetrandria, Monogynia
Rhamnus	Buckthorn	Pentandria, Monogynia
Rheedia		Polyandria, Monogynia
Rheum	Rhubarb	Polyandria, Monogynia Enneandria, Trigynia
Rhexia		Octandria, Monogynia
Rhinanthus	Elephant's Head	Didynamia, Angiosper.
Rhizophora		s Dodecandria, Monogyn.
Rhodiola	Rofe Root	Dioecia, Octandria
Rhododen-	Dwarf Rofe-bay	Decandria, Monegynia
dron-	25 Will Role-Buy	Decanaria, Workey III
Rhus	Sumach	Pentandria, Trigynia
Ribes		Pentandria, Monogynia
Riccia	Marsh Liver-wort	Cryptogamia, Algæ
Richardia	, , , , , , , , , , , , , , , , , , ,	Hexandria, Monogynia
Ricinus	Palma Christi -	Monoecia, Monadelphia
Ricotia	Taima Chinti	Tetradynamia, Siliquofa
Rivina		
	False Acacia	Tetrandria, Monogynia
Robinia Roëlla	Fanc Acacia	Diadelphia, Decandria
		Pentandria, Monogynia
Rondeletia		Pentandria, Monogynia
Roridula	Rofe	Pentandria, Monogynia
Rofa		Icofandria, Polyginia
Rofmarinus	Rofemary	Diandria, Monogynia
Rotala Rottboella		Triandria, Monogynia
_	African Bladder-nut	Triandria, Digynia Decandria, Digynia
Royena . Rubia	Madder Madder	Tetrandria, Monogynia
Rubus		Icofandria, Polygynia
Rudbeckia	Rasberry Dwarf Sunslower	
Ruellia	Dwaff Sumfower	Syngenesia, Polyg.frustr.
	Dools	Didynamia, Angiosper.
Rumex	Dock	Hexandria, Trigynia Triandria, Mongynia
Rumphia		Tetrandria, Tetragynia
Ruppia	Trues TT-11- on Postal	
Rufcus		h-Dioecia, Syngenefia,
Russelia	ers Broom	Pentandria, Digynia
Ruta	Due	Decandria, Monogynia
ruta	Rue	Sac-
		020

GENERA.

ENGLISH NAMES.

CLASSES and ORDERS.

Saccharum Sagina Sagittaria Salacia Salicornia Salix Salfofa Salvadora Salvia Samara : Sambucus

Samolus Samyda Sanguinaria Sanguisorba Sanicula Santalum Santolina Sapindus Saponaria Saraca Sarracena Sarothra Satureja Satyrium Saururus Sauvagesia Saxifraga Scabiosa

Scandix Scavola Schouchzeria Scheffieldia Schinus Schmedelia Schoenus Schrebera Schwalbea Schwenkia

Scabrita

Sugar Cane Pearl-wort Arrowhead

Jointed Glass-wort Willow Glass-wort

Sage

Elder

Pimpernel

Puccoon Greater Wild Burnet Sanicle Saunders Lavender Cotton Soap-berry Soap-wort

Sidefaddle Flower Bastard Gentian Lizard-Flower Lizard's Tail

Saxifrage Scabious

Venus's Comb

Indian Mastick Bastard Cypress

Triandria, Digynia Tetrandria, Tetragynia Monoecia, Polyandria Gynandria, Triandria Monandria, Monogynia Dioecia, Diandria Pentandria, Digynia Tetrandria, Tetragynia Diandria, Monogynia Tetrandria, Monogynia Pentandria, Trigynia Round-leaved Water-Pentandria, Monogynia

Decandria, Monogynia Polyandria, Monogynia Tetrandria, Monogyia Pentandria, Digynia Tetrandria, Monogyi ia Syngenesia, Polyg. aqua. Octandria, Trigynia Decandria, Digynia Diadelphia, Hexandria Polyandria, Monogynia Pentandria, Trigynia Didynamia, Gymnosper. Gynandria, Diandria Heptandria, Trigynia Pentandria, Monogynia Decandria, Digynia Tetrandria, Monogynia Tetrandria, Monogynia Shepherd's Needle, or Pentandria, Digynia

Pentandria, Monogynia Lesser Flowering Rush Hexandria, Trigynia Pentandria, Monogyria Dioccia, Decandria Octandria, Digynia Triandria, Monegynia Pentandria, Digynia Didynamia, Angiotper. Diandria, Monogynia Scilla

U 4

GENERA.	English	Names.	CLASSES and	ORDERS.
Scilla	Squill		Hevandria Me	nogunia
Scirpus	Rush-grass		Hexandria, Mo Triandria, Mo	nogyma
Scleranthus	Germankn	ot grafe o	Decandria, Di	nogyma ownia
Coloranthas	Knawel	ot-grais, or	Decandina, Di	g y IIIa
Scolymus	Golden T	histle	Syngenesia, Pol	lvg.ægua.
Scoparia			Tetrandria, M	lonogynia
Scopolia			Gynandria, Od	
Scorpiurus	Caterpilla	rs	Diadelphia, D	
Scorzonera	Viper-graf		Syngenef.Poly	g.æqualis
Scrophularia	Fig-wort		Didynamia, Ar	ngiosper.
Scutellaria	Skull-cap		Didynamia, G	ymnosper.
Şecale	Rye		Triandria, Di	gynia
Securidaca			Diadelphia, O	ctandria
Sedum	Lesser Ho	usleek	Decandria, Pe	
Seguieria			Polyandria, M	lonogynia –
Selago			Didynamia, A	ngiosper
Selinum	Milk Parl	ley	Pentandria, D	
Semecarpus			Pentandria, T	
Sempervivum			Dodecandria,	
Senecio	Groundse.	l	Syngenesia, Po	olyg.fuper.
Şeptas			Heptandria, H	leptagynia
Serapias	Hellebori	ne	Gynandria, I	
Seriola			Syngenesia; Po	
Seriphium		`	Syngenesia, M	
Serpicula			Monoecia, To	
Serratula	Saw-wort		Syngenesia, Po	
Sefamum	Only Purg	ging Grain	Didynamia, A	ingioiper.
Sefeli	Hartwort	or iviarieiii	esPentandria, I	
Sefuvium	TOTAL DIS	13 77.33.	Icofandria, T	
Sherardia .	Tittle Lie	ld Madder	Tetrandria, N	
Sibbaldia			Pentandria, P	
Sibthorpia	Sinalafaa	dadoucumb	Didynamia,	
Sicyos (Indian M		erMonoecia, Sy	
Sida Sideritis	Iron-wor	· · · · · · · · · · · · · · · · · · ·	Monadelphia Didynamia, C	
	Iron-woo		Pentandria, N	
Sideroxylon	11011-400	u	Syngenesia, Po	nlvo funer.
Sigesbeckia Silene	Viscous C	amnion	Decandria, 7	riovnia
Silphium			mSyngenesia, I	
Onpinuin	Jana Gen	. / 141101101110	necessaria	78
Sinapis	Mustard		Tetradynami	a, Siliquofa
Siphonanthu			Tetrandria, I	
Sirium	7		Tetrandria,	
er de many			,	Sifon

GENERA.

ENGLISH NAMES.

CLASSES and ORDERS.

Sison Sifymbrium Sifyrinchium Sium Skimmia Sloanea Smilax | Smyrnium Solandra Solanum Soldanella Solidago Sonchus Sonneratia Sophora Sorbus Sparganium Sparrmania Spartium Spathelia Spergula Spermacoce Spæranthus

Bastard Stone Parsley Water Cresses Bermudiana Water Parfnep

Rough Bindweed Alexanders

Nightshade Soldanel Golden Rod Sow-Thiftle

Service-Tree Burr-Reed

Broom

Spurrey Button-Weed Globe Flower

Bog-mofs

Worm-grass

Sphagnum Spigelia Spilanthus Spinacia Spinifex Spiræa Splachnum Spondias Stachys Stæhelina Stapelia Staphylæa

Statice

Stellera

Stemodia

\$ terculia Steris

Stewartia

Stipa

Spinach Spiræa Frutex

Brafilian Plum Base Horehound

Bladder-nut Thrift or Sea Pink Great Chickweed German Groundsel

Feather-grass

Pentandria, Digynia Tetradynamia, Siliquofa Gynandria, Trigynia Pentandria, Digynia Tetrandria, Monogynia Apeiba of Brasilianians Polyandria, Monogynia Dioecia, Hexandria Pentandria, Digynia

Polygamia, Monoecia Pentandria, Monogynia Pentandria, Monogynia Syngenesia, Polyg. super. Syngenef.Polyg.æqualis Icosandria, Monogynia Decandria, Monogynia Icosandria, Trigynia Monoecia, Triandria Polyandria. Monogynia Diadelphia, Decandria Pentandria, Trigynia Decandria, Pentagynia Tetrandria, Monogynia Syngenesia, Polygamia,

legregata Cryptogamia, Musci Pentandria, Monogynia Syngenesia, Polyg. æqua. Dioecia, Pentandria Polygamia, Monoecia Icosandria, Pentagynia Cryptogamia, Mulci Decandria, Pentagynia Didynamia, Gymnosper. Syngenesia, Polyg. æqua. Pentandria, Digynia Pentandria, Trigynia Pentandria, Pentagynia Decandria, Trigynia Octandria, Monogynia Didynamia, Angiosper. Monoecia, Monadelphia Pentandria, Digynia Monadelphia, Polyandr. Triandria, Digynia

Stila

TABLE I.

GENERA. ENGLISH NAMES. CLASSES and ORDERS.

Stilago Gynandria, Triandria Polygamia, Dioecia Stilbe Stillingia Monoecia, Monadelphia Stoehe Bastard Æthiopian Syngenesia, Polygamia Elichryfum fegregata Stratiotes Water Soldier Polyandria, Hexagynia Struthiolz Tetrandria, Monogynia Syngenesia, Monogamia Strumpfia Strychnus Pentandria, Monogynia Storax Tree Dodecandria, Monogyn. Styrax Rough-leaved Alysson Tetradynamia, Siliculosa Subularia Decandria, Pentagynia Suriana Marsh Gentian Swertia Pentandria, Digynia Symphonia Monadelphia, Pentandr. Symphytum Comphrey Pentandria, Monogynia Symplocas Polyadelphia, Polyandri Syringa Lilac Diandria, Monogynia Swietenia Mahogany Tree Decandria, Monogynia

African Marygold

Tamarind Tree

Black Bryony

Tamarisk

Yew Tree

True Orpine

Germander

Tanfey

Tabernæmontana Tacca

Tagetes Tamarindus Tamarix Tamus Tanacetum Tarchonan-

thus Targionia Taxus Tectona

Telephium Terminalia Ternstromia Tetracera

Tetragonia Teucrium, Thalia Thalictrum

Meadow Rue Thapfia Deadly Carrot, or Scorching Fennel Decandria, Monogynia

Dodecandria, Trigynia Syngenesia, Polyg.super. Triandria, Monogynia Pentandria, Trigynia Dioecia, Hexandria Syngenesia, Polyg.super. Shrubby AfricanFlea-Syngenesia, Polygamia, æqualis

Cryptogamia, Algæ Dioecia, Monadelphia Pentandria, Monogynia Pentandria, Trigynia Polygamia, Monoecia Polyandria, Monogynia Polyandria, Trigynia Icosandria, Pentagynia Didynamia, Gymnosper. Monandria, Monogynia Polyandria, Polyginia Pentandria, Digynia

Thea

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
Thea	Tea Tree	Polyandria, Monogynia
	Dog's Cabbage	Monoecia, Polyandria
Theligonum Theobroma	Chocolate Nut	Polyadelphia, Pentandria
	Chocolate Ivat	Pentandria, Monogynia
Theophrasta 'Thefium	Bastard Toad Flax	Pentandria, Monogynia
		Tetradynamia, Siliculosa
Thlaspi	Treacle Mustard	1 Colledy Hamilton, C. L. College
Thouinia	A LONGIO TITALINI -	Diandria, Monogynia
Thyrallis		Decandria, Monogynia
Thuja	Arbhor Vitæ	Monoccia, Monadelphia
Thunbergia	11101101 7 100	Didynamia, Angiosper.
Thymbra	Mountain Hyssop	Didynamia, Gymnosper.
Thymus	Thyme	Didynamia, Gymnosper.
Tiarella	2 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Decandria, Digynia
Tilia	Lime Tree	Polyandria, Monogynia
Tillæa		Tetrandria, Monogynia
Tillandsia		Hexandria, Monogynia
Tinus		Enneandria, Monogynia
Toluifera	Balfam of Tolu Tree	Decandria, Monogynia
Tomex	January of Lord Life	Tetrandria, Monogynia
Tordylium	Hartwort of Crete	Pentandria, Digynia
Torenia	Ziurewore or Croto	Didynamia, Angiosper.
Tormentilla	Tormentil	Icofandria, Polygynia
Tournefortia	I Official	Pentandria, Monogynia
Tozzia		Didynanda, Angiosper.
Trachelium	Umbelliferous Throat.	-Pentandriu, Monogynia
x racheman	wort	Z Ontanica ing maonos y min
Tradescantia		tHexandria, Monogynia
Tragia	, regiment of the second	Monoecia, Triandria
Tragopogon	Goat's Beard	Syngenesia. Polyg. æqua.
Trapa	Walter Caltrops	Tetrandria, Monogynia
Tremella	· · · · · · · · · · · · · · · · · · ·	Cryptogamia, Algæ
Trewia		Polyandria, Monogynia
Trianthema	Horse Purslane	Decandria, Monogynia
Tribulus	Caltrops	Decandria, Monogynia
Trichilia		Decandria, Monogynia
Trichomanes		Cryptogamia, Filices
	Serpent Cucumber	Monoecia, Syngenesia
Trichostema	1	Didynamia, Gymnosper.
Tridax	Trailing Starwort of	Syngenesia, Polygamia,
	Vera Ĉruz	fuperilua
Trientalis	Winter-green with	Heptandria, Monogynia
	Chickweed Flowers	3
Trifolium	Trefoil	Diadelphia, Decandria
		Triglo-

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
Triglochin	Arrow-headed Grafs	Hexandria, Trigynia
Trigonella	Fenugreek	
Trillium	Herb Truelove of Ca nada	-Hexandria, Trigynia
Trilix		Polyandria, Monogynia
Triopteris		Decandria, Trigynia
Triosteum	Fever-Root, or False	Pentandria, Monogynia
	Ipecacuana	9.
Triplaris		Triandria, Trigynia
Tripfacum		Monoecia, Triandria
Triticum	Wheat	Triandria, Digynia
Triumfetta		Dodecandria, Monogyn.
Trollius	Globe Ranunculus	Polyandria, Polygynia .
Tropæolum	Indian Cress	Octandria, Monogynia
Trophis		Dioecia, Tetrandria
Tulbagia		Hexandria, Monogynia
Tulipa	Tulip	Hexandria, Monogynia
Turnera	•	Pentandria, Trigynia
Turræa		Decandria, Monogynia
Turritis	Tower Mustard	Tetradynamia, Siliquosa
Tussilago	Colt's Foot	Syngenesia, Polyg.super.
Typha	Cat's-tail,orReedmac	e Monoecia, Triandria

V

. V		
Vaccinium Vahlia	Whortle Berry	Octandria, Monogynia Pentandria, Digynia
Valantia	Crofs-wort	Polygamia, Monoecia
Valerian	Valerian	Triandria, Monogynia
Vallea		Polyandria, Monogynia
Vallisneria		Dioecia, Diandria
Vandellia		Didynamia, Angiosper.
Varronia		Pentandria, Monogynia
Vateria		Polyandria, Monogynia
Vatica		Dodecandria, Monogyn.
Valezia		Hexandria, Digynia
Vella	Spanish Cress	Tetradynamia, Siliculosa
Veratrum	White Hellebore	Polygamia, Monoecia
Verbascum	Mullein	Pentandria, Monogynia
Verbena	Vervain	Diandria, Monogynia
Verbefina		Syngenesia, Polyg. super.
Veronica	Speedwell	Diandria, Monogynia
Viburnum		r Pentandria, Trigynia
	Waysaring Tree	×7*_*
		Vicia

GENERA.	ENGLISH NAMES.	CLASSES and ORDERS.
Vicia	Vetch	Diadelphia, Decandria
Vinca	Periwinkle	Pentandria, Monogynia
Viola	Violet	Syngenesia, Monogamia
Virecta		Pentandria, Monogynia
Vifcum	Misletoe	Dioecia, Tetrandria
Vifnea		Dodecandria, Trigynia
Vitex	Agnus Castus, or Chaste	eDidynamia, Angiosper.
	Tree	
Vitis	Vine	Pentandria, Monogynia
Volkameria		Didynamia, Angiosper.
Ulex	Furze, Whins, or Gorfs	Diadelphia, Decandria
Ulmus	Elm Tree	Pentandria, Digynia
Ulva	Laver	Cryptogamia, Algæ
Uniola	Sea-fideOatsofCarolin	
Unona		Polyandria, Polygynia
Urena	Indian Mallow	Monadelphia, Polyandr.
Unxia		Syngenef. Polyg. superfl.
Urtica	Nettle	Monoecia, Tetrandria
Utricularia	Water Milfoil	Decandria, Monogynia
Uvaria		Polyandria, Polygynia
. Uvularia		Hexandria, Monogynia

W

Wachendorfia
Waltheria
Weigela
Weinmannia
Willichia
Wintera
Witsenia
Wulfenia
Wurmbea

Triandria, Monogyria Monadelphia, Pentandria Pentandria, Monogynia Octandria, Digynia Triandria, Monogynia Poliandria, Polygynia Triandria, Monogynia Diandria, Monogynia Hexandria, Trigynia

X

Lesser Burdock	Monoecia, Pentandria
Austriansneezewor	t,orSyngenesia, Polygamia,
Eternal Flower	fuperflua
	Octandria, Monogynia
	Pentandria, Trigynia
	Gynandria, Polyandria
	Tetrandria, Monogynia
	Yucca
	Austriansneezewor

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GENERA. ENGLISH NAMES. CLASSES and ORDERS.

Y

Yucca Adam's Needle Hexandria, Monogynia

Z

Zamia Cryptogamia, Filices Zanichellia Triple-headed Pond- Monoccia, Monandria

weed

Zanonia Dioecia, Pentandria Zanthoxylum Tooth-ach Tree Dioecia, Pentandria Zea Indian, or Turkey wheat Monoecia, Triandria

Zea Indian,orTurkeywheatMonoecia, Triandria Zinnia Syngenef.Polyg.fuper. Zizania Monoecia, Hexandria Ziziphora Syrian Field Bafil Diandria, Monogyaia

Zoegea Syngenefia, Polyg. frustr.
Zostera Grass-wrack Gynandria, Polyandria
Zygophyllum Bean Caper Decandria, Monogynia

T A B L E II.

Generic Names rejected.

English Names. Linnæan Genera.

A

Abies, Tourn. Abrotanum, Tourn. Absinthium, Tourn, & Vaill. A. G. Abutilon, Dill. Ekth. & Tourn. Abutilon, Dill. Elth. Acacia, Tourn. Acajou, Tourn. Acarna, Vaill. A. G. Acetosa, Tourn. Achyracantha, Dill. Elth. Achyronia, Royen. Achyrophorus, Vail A.G. pl.ed. prim. Acinos, Dill. gen. Acnide, Mitch. Adhatoda, Tourn. Ægilops, Dill. gen. Ageratum, Tourn. Agnanthus. Vaill. A. G. Agrimonoides, Tourn. Ahouai, Tourn. Alaternus, Tourn. Alcea, Tourn. Alchimilla, Tourn. Alga, Raj. Ang. Algoides, Vaill. A. G. Alhagi, Tourn. Alkekengi, Tourn. Alnus, Tourn. Aloides, Boer. Lugd. Alpina, Plum. Alfinastrum, Vaill. B. P.

Pinus Fir Artemisia SouthernWood Artemisia Wormwood Indian Mallow Sida Carolina Mallow Malva Mimofa Cashew Nut Anacardium' Blessed Thistle Cnicus Rumex Sorrel

Achyracantha, Dill. Elth.

Achyronia, Royen.

African Broom

Afpalathus

Achyrophorus, Vail A.G.

Hypocheris

Acinodendron, Lin. gen. American Gooseberry Melastoma

Wild, or Stone Basil Malabar Nut Oat Grass

Bastard Agrimony

False Phyllyrea Vervain Mallow Ladies Mantle Grass-wrack

French Honeysuckle Winter Cherry Alder Water Soldier

Thymus Acnida Justicia Promus Erinus Cornutia Agrimonia Cerbera Rhamnus Malva Alchemilla Zostera Zannicheilia Hedysarum Phytalis Betula Stratiotes Alpinia Elatine

Alfine,

Generic Names. REJECTED.	ENGLISH NAMES.	Linnæak Genera.
Alfine, Tourn. Alfinella, Dill. gen. Alfinoides, Raj.	Great Chickweed	Stellaria Sagina Bufonia
Alfinoides, Vaill. B. P. Alypum, Nis. A. G. Alystoides, Tourn.	Blue Daify Madwort	Montia Globularia
Amanita, Dill. Amaranthi species, Tours	Agaric	Alyssum Agaricus Amaranthus
Amaranthoides, Tourn. Amberboi, Vaill.	Globe Amaranth Sweet oriental Cyanus called Sweet Sultan	Gomphrena, Centaurea
Amethystina, Amman. & Hall.	caned owect outtain	Amethyste2
Ammoides, Boerh. Ampana, Hort. Mal.	Bishop's Weed Malabar Palm (Male)	
Anacampseros, Tourn. Anacampseros, Lin. gen:	Orpine EvergreenAfricanPur- flane	Sedum Portulaca
pl. edit. prim. Anagallidastrum, Mich. Ananas, Tourn.	Pine Apple	Centunculus ³ Bromelia
Ananthocyclos, Vaill. A. G. & Dill. Elth.	•	Cotula
Anapodophyllum, Tourn	Apple	
Androsæmum, Tourn, Anemone ranunculus, Dill. gen.	Tutsan, or Park Leaves Wind Flower	Anemone
Anemonoides, Dill. gen. & Vaill. A. G.	Wood Anemone	Anemone
Anemonospermos, Com. Hort. Amst.		Arctotis
Angiopteris, Mitch. Anguina, Trew.	8	Onoclea Calla
Anguina, Mich. Anguria, Tourn.	Water Melon	Trichofanthes Cucurbita
Anonis, Tourn. Anonymos, Gron. virg.		Ononis Chelone Boerhaavia
Antanisophyllum, Vaill. A. G. Anthyllis, Magn. char.	•	Cressa
Aparine, Tourn. Aphaca, Tourn.	Clivers, or Goose Grass	

Generic Names.	ENGLISH NAMES.	LINNÆAN. GENERA.
Aphyllon, Mich.	Single flowered Broom Rape	Orobanche
Apios, Boerh.	Knobbed-rootedLiquo- rice Vetch	
Aponogeton. Pont. Anth.	Dog's Bane Triple Headed Pond- weed	Asclepias Zanichellia
Aquifolium, Tourn.	Holly	Ilex
Arachidna, Plumb.	Ground Nut	Arachis
Arachidnoides, Niss.A.G.		Arachis
Araliastrum, Vaill.	Ginfeng	Panax
Arapabaca, Plumb.		Spigelia
Arctotheca, Vail. A. G.		Arctotis
Arifarum, Tourn.	Friar's Cowl	Arum
Armeniaca, Tourn.	Apricot	Prunus
Aronia, Mitch.	Floating Arum	Orontium
Aruncus, Lin. gen. pl. ed. prim.	Greater Meadow Sweet	:Spiræa
Afarina, Tourn.	Snapdragon, with Ground Ivy Leaves	Antirrhinum
Ascyrum, Tourn.	St. Peter's Wort, with great Flowers	Hypericum
Aspergillus, Mich.		Byffus
Asteriscus, Dill. Elth.	Bastard chrysanthemum	4
Asteriscus, Tourn.	Ox Eye	Buphthal-
Vaill. A. G. & Dill. Elth.	·	mum
Asterocephalus, Vaill. A. G.	Scabious	Scabiofa .
Asteroides, Tourn. & Vaill. A. G.	Ox Eye	Buphthal- mum
Asteropterus, Vaill. A. G.	Star-wort	After
Astragaloides, Tourn.	Bastard Milkvetch	Phaca
Atractylis, Vaill. A. G.	Distaff Thisle	Carthamus
Aurantium, Tourn.	Orange	Citrus
Aureliana, Last.	Ginfeng	Panax
Auricula, Urfi, Tourn.	Auricula, or Bear's Ear	
Azcderach, Tourn.	Boad Tree	Melia

В

Baccharis, Vaill. A. G. Lavender Cotton Santolina
Badi-

GENERIC NAMES. ENGLISH NAMES. LINNÆAN REJECTED. GENERA. Badiaga, Buxb. River Spunge Spongia Ballote, Tourn. Black Horeliound Ballota Balsamina, Tourn. Balfam Impatiens Balfamita, Vaill. A. G. Costmary Tanacetum Greater Meadow sweet Spiræa Barba capræ, Tourn. Deadly Nightshade Belladona, Tourn. Atropa Bellidiastrum, Mich. Middle Daify Doronicum Bellidioides, Vaill. A. G. Greater, or Ox-eye Chrysanthe-Daify mum Bellis- Leucanthemum, Annual Daify Bellis Mich. gen. Benzoë, Boerh. Benjamin Tree Laurus Bermudiana, Tourn. & Sifyrinchium Dill. Elth. Bernhardia, Houst. A. A. Bastard Ricinus Croton Bidentis species, Dill. Tick-feeded Sun-flower Coreopfis Elth. Bihai, Plum. Banana Musa Bistorta, Tourn. Bistort, or Snakeweed Polygonum Verbena Blairia, Houft. A. A. Vervain Moth Mullein Blattaria, Tourn. ${
m Verbaseum}$ Phallus Boletus, Mich. Bonarota, Mich. Rock Germander Veronica Nickar Tree Guilandina Bonduc, Plum. Indian Borage Boraginoides, Boerh. Borrago Borbonia, Plum. Red Bay of Carolina Laurus Bysus Botrytis, Mich. Bovista, Dill. Lycoperdon Bryonioides, Dill. Elth. Single-feededcucumber Sicyos Bucca-ferrea, Mich. Ruppia Buglossum, Tourn. Buglofs Anchusa Bugle Ajuga Bugula, Tourn. Bulbine, Lin. gen. pl. Ed. Cape Spider-wort Anthericum prim. Pig-nut, or Earth-Nut Bunium Bulbocastanum, Tourn. Bupthalmum, Tourn. Ox-eye of old Authors Anthemis

Bastard Hare's-ear

Shepherd's Pouch.

Caapeba, Plum.

Bupleuroides, Boerh.

Bursa Pastoris, Tourn.

Cissampelos Ca-

Phyllus

Thlaspi

Generic Names rejected.	English Names.	Linnæan Genera.
Cacalianthemum, Dill.		Cacalia
Cacao, Tourn.	Chocolate Nut	Theobroma
Cainito, Plum.	Star Apple	Chrysophyl - lum
Calaba, Plum.		Calophyllum
Calamintha, Tourn.	Calamint	Melissa
Calamus aromaticus, Pet. gen. & Mich.	Sweet Rush	Acorus
Calceolus, Tourn.	Ladies Slipper	Cypripedium
Calcitrapa, Vaill.	Star Thistle	Centaurea
Calcitrapoides, Vaill.	Thorny Knapweed	Centaurea
Caltha, Tourn. & Vaill. A. G.	Marigold	Calendula
Camara, Plum. & Dill. Elth.	American Viburnum	Lantana
Cameraria, Dill. gen.	SmallWaterChickweed, or Blinks	Montia
Camphora, Gronov. diff.	Camphor Tree	Laurus
Camphorata, Tourn.	Stinking Ground Pine	Camphorof- ma
Cannabina, Tourn. cor.	Bastard Hemp	Datifca
Cannacorus, Tourn.	Indian Flowering Reed	
Capnoides, Tourn.	Fumatory	Fumaria
Caprifolium, Tourn.	Honey-fuckle	Lonicera
Caprificus, Pont. Anth.	Wild Fig-tree	Ficus
Caraguata, Plum.	•	Tillandsia
Caraxeron, Vaill. A. G.	Globe Amaranth	Gomphrena
Cardamindum, Tourn.	Indian Cress	Tropæolum
Cardiaca, Tourn.	Mother-wort	Leonurus
Cardispermum, Trant. A. G.	Marigold	Calendula
Cardui species, Tourn.	Woolly Thiftle	
Carelia, Pont. diff.	BastardHempAgrimony	Ageratum
Carimpana, Hort. Mal.	Malabar Palm (Female)	
Carlinoides, Vaill. A. G.	. Carline Thistle	Carlina
Carpobolus, Mich.	7.4.10.00	Lycoperdon
Carthamoides, Vaill. A.G		Carthamus
Carui, Tourn.	Caraway	Carum
Caryophyllata, Tourn.	Avens, or Herb Benne	
Caryophyllodendron, Vaill. A. G.	Clove-tree	Caryophillu
	Y a	C

Caryophillus

GENERIC NAMES REJECTED.	ENGLISH NAMES.	LINNÆAN- GENERA.
Caryophyllus, Tourn.	Pink, Clove July Flower Sweet William, &c.	Dianthus
Caryophyllus, aromaticus, Tourn.		Caryophyl-
Cafia, Tourn	Poet's Cassia	Ofyris
Cassida, Tourn.	Skull-Cap	Scutellaria
Castanea, Tourn.	Chestnut	Eagus
Castorea, Plum		Duranta
Catanance, Tourn.	Candy Lion's Foot	Catananche
Cataria, Teurn.	Catmint	Nepeta
Cedrus, Tourn.	Cedar	Juniperus
Ceiba, Plum.	Silk Cotton Tree	Bombax
Centaureum majus, Tour	. Centaury	Centaurea
Centaureum minus, Tour	Lesser Centaury	Gentiana
Cepa, Tourn	Onion	Allium
Cerasus, Tourn.	Cherry	Prunus
Ceratocephaloides, Vaill		Verbesina
A. G.		
Ceratocephalus, Vaill. A. G.		Bidens
Ceratoides, Tourn. Cor.		Axyris
Cereus, Juff. A. G.	Torch Thiftle	Cactus
Cerinthoides, Boerh.	Honey-wort	Cerinthe
Cervispina, Dill. gen.	Buckthorn	Rhamnus
Chærophylli species,	Wild Chervil	Chærophyl-
Tourn.		lum
Chamæbuxus, Tourn.	Low Box	Polygala
Chamæcerafus, Tourn.	Dwarf Cherry, or Up	
	right Honeyfuckle	
Chamædaphne, Buxb. A. R.		Andromeda
Chamædaphne, Mitch.		Mitchella
Chamædrys, Tourn.	Germander	Teucrium
Chamæjafme, Amm.		Stellera
Chamælea, Tourn.	Widow Wail	Cneorum
Chamælinum, Vaill. B P	Least Rupture-wort, or All-seed	Linum
Chamæmelum, Tourn. & Vaill. A. G.	Chamómile Chamóm	Anthemis
Chamænerion, Tourn.	Rosebay Willow Herb	Epilobium
Chamæpitys, Tourn.	Ground Pine	Teucrium
		Cha-

GENERIC NAMES	ENGLISH NAMES.	LINNÆAN
REJECTED.		GENERA.
	D (D (1	D1 1 1
Chamærhododendros,	Dwarf Rosebay	Rhododen-
Tourn.	D CD-1	dron
Chamæriphes, Pont.	Dwarf Palm	Chamærops
Chenopodio-morus, Boer.	Strawberry Spinach, or Blite	Diffulli
Christophoriana, Tourn.	Herb Christopher	Actæa
Chrysanthemoides, Tour.	Hard-seeded Chrysan-	Ofteosper-
A. G. Dill. Gen. & Elth		mum
Chrysocome, Dill. gen.	Goldy Locks	Chyfocoma
Cicuta, Tourn.	Hemlock	Conium
Cicutaria, Tourn.	Great broad-leaved Ba-	Liguiticum
	stard Hemlock	J
Cinara, Tourn.	Artichoke	Cynara
Cinnamonum, Herm. H.	Cinnamon Tree	Laurus
L. B. & Burm. Zeyl.		
Cirsium, Tourn. & Vaill. A. G.	Soft or Gentle Thistle	Carduus
Citreum, Tourn.	Citron	Citrus
Clandestina, Tourn.	Broom Rape with great	Lathræa
	Purple Flowers, or	
	great Purple Herb-	
01 17 07	bane	01
Clematitis, Tourn.	Virgin's Bower	Clematis
Clitorius, Dill. Elth.	Chi-hi w 1	Clitoria
Clymenum, Tourn.	Chichling Vetck	Lathyrus
Coa, Plum. Codda Panna, Hort. Mal.		Hippocratea Complete
Coffe, Juff. A. G.	Coffee Tree	Corypha Coffea
Colocasia, Boerh.	Great Egyptian Arum	
Colocynthis, Tourn.	Coloquintida, or Bitter	
20100	Gourd Gourd	oucum:s
Coma aurea, Boerh.	Goldy Locks	Chryfocoma
Conocarpodendron, Boer.		Protea
Convolvulo Tithymalus,		Dalechampia
Boerh.		
Conyzella, Dill. Gen.		Erigeron
Conyzoides, Dill. Gen.		Erigeron
Conyzoides, Tourn. A. G		Carpefium
Coral, Dill, Elth.	Coral Tree	Erythrina
Corallo fungus, Vaill. B. P.		Clavaria
Corallodendron, Tourn.	Corol Tres	T .1 *
orangagnaton, 2007.	Coral Tree	Erythrina
	44.4	Co-

GENERIC NAMES REJECTED.	English Names.	Linnæan Genera.
Coralloides, Tour. & Mich. Coralloides, Dill. Musc. Cordyline, Roy. Lugd. Corindum, Tourn.		Clavaria Lichen Yucca Cardiofper-
Cornucopioides, Scheuch		mum Cornucopiæ
Corona imperialis, Tourn Corona folis, Vaill. A.G. Tourn. & Dill. Elth.	.Crown Imperial	Fritillaria Helianthus
Coronopus, Tourn. Corrigiola, Dill. gen. &	Buck's horn Plantain Verticillate knot-grass	Plantago Illecebrum
Mæhr. Cortusa, Plum.		Thalia
Corydalis, Dill. gen. Cotinus, Tourn.	Bladder Fumatory Venice Sumach	Fumaria Rhus
Cotula, Tourn Courbaril, Plum.	Locust Tree	Anacyclus Hymenæa
Crepis, Vaill. A. G. Crocodilium, Vaill.	Tangier Sow Thisse Centaury without stems	Scorzonera Centaurea
Crocoddilodes, Vaill. Cruciata, Tourn.	Distaff Thistle Cross-wort	Atractylis Valantia
Cucularia, Just. A.G.	Stalk	Fumaria
Cujete, Plum. Cuminoides, Tourn. Cururu, Plum.	Calabash Tree Wild or Bastard Cumin	Crescentia Lagoecia Paullinia
Cyanus, Tourn. & Vaill. A. G.	Blue Bottle	Centaure2
Cyathoides, Mich. Cydonia, Tourn.	Cup Mushroom Quince Tree	Peziza Pyrus
Cynoglossoides, Isnard.	Dog's Cabbage Borrage	Theligonum Borrago
A. G.		Cynometra
Cynomorium, Garc. Cynorrhinchium, Mitch.		Mimulus Schænus
Cyperella, Mich. Cyperoides, Tour. Scheuc.		Carex
& Mich. Cysticapnos, Boerh,	Bladder Fumatory	Fumaria
n		

Dalea, Lin. gen. pl. Ed.

prim.

Pforalea

D2-

GENERIC NAMES	ENGLISH NAMES.	LINNÆAN
		GENERA.
REJECTED.		
Damasonium, Tourn. &	Star-headed Water Plantain	Alisma
Vaill. A. G.	¥ 14011	Isnardia
Dantia, Petit. gen.	Dog's Tooth Violet	Erythronium
Dens Canis, Tourn.	Dandelion	Leontodon
Dens Leonis, Tourn.	Dandenon	Ceratophyl-
Dichotophyllum, Dill.		lum
gen.		Itea
Diconangia, Mich.	Mantanid	Calendula
Dimorphotheca, Vaill. A. G.	Marigold	
Diototheca, Vaill. A. G.		Morina
Dodonæa, Plum.	Hollywithwing'dleaves	Ilex
	Golden Rod	Solidago
Doria, Dill. gen. & Elth.	Water Gladiole	Lobelia
Dortmanna, Rudb. A. S. Dracunculoides, Boerh.	Blood Flower	Hæmanthus
Dracunculus, Tourn.	Dragons	Arum
	2,450	Volkameria
Duglassia, Houst. A. A.		
£		
	On a michi	Echinops
Echinopus, Tourn. & Vaill. A. G.	Globe Thistle	•
Echinoides, Dill. gen.	_	Lycopfis
Elate, Mus. Cliff.	Common Palm, or Dat Tree	
Elaterium, Boerb.	Wild, Spirting, or Affe Cucumber	
Elatine, Dill. gen.	Fluellin, or Female Speedwell	Antirrhinum
Elephas, Tourn.	Elephant's Head	Rhinanthus
Elichrysum, Tourn. &	Cassidony, Goldylock	s, Gnaphalium
Dill. Elth.	or Eternal Flower	
Elymus, Mich.		Zizania
Emerus, Tourn.	Scorpion Senna	Coronilla
Enula, Cafalp. & Magni	ol. Elecampane	Inula
Ephemerum, Tourn.	Virginian Spiderwor	Tradescan-
Epitemerani, 2 var av	7 -2 p 1	tia
Erebinthus, Mitch.		Vicia
Erefia, Plum.		Theophrasta
Ericæ species, Tourn.		Andromeda
Erinacea, Tourn.	Spanish hedge hog the	orn Anthyllis
Erinaceus, Dill. & Mich	b opunin neage mig in	Hydnum
Millagetts) Diff. & Bitt.	Х4	Erio
	** *	

GENRIC NAMES REJECTED.

ENGLISH NAMES.

LINNÆAN GENERA.

Eriocephalus, Vaill. A.G. Spear Thistle Carduus Eriophorus, Vaill. A. G. Downy Sow Thistle, or Andryala Woolly Hawkweed

Erucago, Tourn.

Square-codded Rocket Bunias of Montpelier

Euonymoides, Isnar. A.G. Staff Tree Celastrus Eupatoriophalacron, Dill. Verbefina Elth. & Vaill. A.G.

Euphorbium, Isnar. A.G. Burning Thorny Plant Euphorbia

F

Faba, Tourn. Fabago, Tourn. Fagopyrum, Tourn.

Ferrum equinum, Tourn. Ficaria, Dill. gen.

Ficoida, Niff. A. G. Dill. gen. & Elth. Ficoides, Tourn. A. G.

Filago, Vaill. A. G. &

Lourn. Filipendula, Tourn. Fluvialis, Vaill. A. G.

& Mich.

Fæniculum, Tourn. Fænum græcum, Tourn. Franca, Mich.

Frangula, Tourn.

Fungoidaster, Mich. Fungoides, Mich. Fungoides, Dill. Fungoidis species, Vaill. Cup Mushroom B. P.

Fungodis species, Vaill. B. P.

Bean Vicia Bean Caper Zygophyl-

Buck Wheat, or Brank Polygonum Horshoe Vetch Hippocrepis

Pilewort, or Lesser Ce-Ranunculus landine

Fig Marigold

Cudweed

Dropwort

Fennell Fenugreek

Trigonella Frankenia Black, or Berry-bearing Rhamnus Alder

Elvela Elvela Clavaria Paziza

Aizoon

Spiræa

Naias

Anethum

Mesembry-

Gnaphalium

anthemum

Elvela

Gale,

GENERIC NAMES REJECTED.

ENGLISH NAMES.

LINNEAN GENERA.

G

Gale, Tourn. A. G. & Dill. gen.

Galeobdolon, Dill. gen.

Galeopsis, Tourn. Gallium, Tourn.

Geaster, Mich. Genista, Tourn. Genista-spartium, Tourn. Furze, Whins, or Gorse Ulex Genistella, Tourn. Gerbera, Lin. gen. pl. Ed.

prim. Gesnera, Plum. Geum, Tourn. Glaucium, Tourn. Glaucoides, Mich.

Gnaphaloides, Tourn. Graminifolia, Dill. gen.

Elth. Grossularia, Tourn. Guaieana, Tourn. Guaiava, Tourn. Guanabanus, Plum. Guazuma, Plum.

Guidonia, Plum.

Sweet Willow, Gale, or Myrica Dutch Myrtle

Yellow Archangel, or Galeopsis dead Nettle

Base Horehound Ladies Bed-straw, or Galium Cheese Renet

Broom Dwarf Broom

Kidney-wort Horned Poppy Water Purslane Battard Cudweed Triple-headed Pondweed

Granadilla, Tourn. & Dill. Passion Flower Gooleberry Indian Date Plum

Wild Syrian Rue

Bay Plum Custard-Apple Bastard Cedar of Jamaica

Stachys

Lycoperdon Spartium Genista Arnica

Gesneria Saxifraga Cheliaonium Peplis Micropus Zanniehellia

Passiflora

Ribes Diospyres Pfidium Annona Theobroma

Samyda

Η

Haeub, Vaill. A. G. Harmala, Tourn. Hedypnois, Tourn. Heisteria, Lin. gen. pl. Ed.

prim. Heleniastrum, Vail. A.G. Bastard Sun-slower Helenium, Vail. A. G. Starwort

Gundelia Peganum Hyoseris Polygala

> Helenia After

Hele-

GENERIC NAMES ENGLISH NAMES. LINNÆAN REJECTED. GENERA. Helenium, Morif. Raj. Elecampane Inula Herm Rivin. Rupp. Knaut. & Vaill. Helianthemum, Tourn. Dwarf Cistus, or Little Cistus Sunflower Helichrysoides, Vaill. A. Seriphium Helichrysoides, Vail.A. Gnaphalium Helichrysum, Vaill, A.G. Cassidony, Goldylocks Gnaphalium or, Eternal Flower Helleborine, Tourn. Bastard Hellebore Serapias Helmintotheca, Vaill. A. Picris Helxine, Lin. gen. pl. Ed. Buckwheat, or Brank Polygonum prim. Henna, Ludro. Lawfonia Anemone Hepatica, Dill. gen. Noble Liverwort, or Hepatica Marchantia Hepatica, Mich. True-loveorOne-berry Paris Herba Paris, Tourn. Hermodactylus, Tourn. Tuberose Iris Iris Hieracioides, Vaill. A.G. Bastard Hawkweed Crepis Æsculus Horse Chestnut Hippocastanum, Tourn. Chara Hippuris, Dill. gen. & Pont. Anth. Salvia Horminum, Tourn. Clary Hyacinthus stellaris, Raj. Star Hyacinth Scilla Meth. Hydroceratophyllon, Ceratophyl-Vaill. A. G. lum Hydrophace, Buxb. cent. Duck Meat Lemna Ascyrum Hypericoides, Plum. St. Peter's Wort Hypocistis, Tourn. Rape of Cistus Afarum Hypophyllocarpoden-Protea dron, Boerb. Monotropa. Hypopitys, Dill. gen. Parthenium Hytterophorus, Vail. A.G. Bastard Feversew |aGENERIC NAMES

ENGLISH NAMES.

LINNEAN GENERA.

Othonna

Othonna

Rajania

Lycium

Chryfobalanus

Mirabilis

I

Jabotapita, Plum.
Jacea, Tourn. Dill. gen. Knapweed Centaurea
& Vaill.

Jacobææ species, Tourn. Ragworts, (sundry, of Solidago Vail. A. G. old Authors)

Jacobææ species, Tourn. Ragworts, (sundry, of Senecio old Authors)

Jacobæastrum, Vail. A. G. African Ragwort

Jacobæoides, Vail. A. G. African Ragwort
Jalapa, Tourn.
Jan-raja, Plum.

Jasminoides, Niss. A.G. Bastard Jasmine Icaco, Plum. Cocoa Plum

Ilex, Tourn.
Indigo, Isnard, A. G.
Inga, Plum.

Evergreen Oak
Goat's Rue

Jonthlaspi, Tourn. Treacle Mustard Isora, Plum. Skrew Tree Juncago, Tourn. & Mich. Arrow-headed Grass

Evergreen Oak
Goat's Rue
Galega
Mimofa
Treacle Mustard
Skrew Tree
Arrow headed Grass
Tivelochin

Juncago, Tourn. & Mich. Arrow-headed Grass Triglochin Justievia, Houst. A. A. Jatropha

K

Kali, Tourn.
Karatas, Plum.
Katovindel, Hort. Mal.
Kæmpfera, Houft. A. A.
Keratophyton, Boerb.
Ketmia, Tourn.

Kleinia, Lin. gen. pl. Ed. prim.

Knawel, Dill. gen. Kodda-pail, Plum. Glass-wort Pine Apple Palm, or Date Tree Vervain

Salfola Bromelia Phænix Verbena Lithoxylum

AlthæaFrutex,orSyrian Hibifcus Mallow

Foreign Colt's Foot Cacalis

German Knot-grass Scleranthus Water Houseleek of Pistia Egypt.

L

Lacryma Job. Tourn.

Job's Tear's

Coix

Lam-

Generic Names Rejected.	ENGLISH NAMES.	LINNÆAN GENERA»
Lampiana, Vaill. A. G. Lancissa, Pont. diss. Lapathum, Tourn.	Nipplewort Dock	Lapfana Cotula Rumex
Lappa, Tourn. & Vaill. A. G.	Burdock	Arctium
Larix, Tourn. Laurentia, Mich.	Larch Tree	Pinus Lobelia
Lauro-cerasus, Tourn. Ledum, Mich.	Laurel	Prunus Andromeda
Lens, Tourn.	Lentils	Ervum
Lentibularia, Vaill. A. G. & Dill. gen.	Water Milfoil	Utricularia
Lenticula, Mich. & Dill.	Duck Meat	Lemna
Leontodontoides, Mich.		Hyoseris
Leontopetalon, Tourn.	Lion's Leaf.	Leontice
Lepidocarpodendron, Boerh.		Protea
Leptostachia, Mich.	01 6 1	Phryma
Leucanthemum, Tourn.	Chrysanthemum with white Rays, or Ox- Eye Daify	inum
Leucojum, Tourn.	Stock July Flower, and Wall Flower.	
Lichen, Dill. Musc.		Marchantia
Lichenastrum, Dill. Musc	•	Jungarman- nia
Lichenoides, Dill. Musc.		Lichen
Lilac. Tourn.	Lilac, or Pipe Tree	Syringa
Liliastrum, Tourn.	White Day Lily, St. Bruno's Lily, or Great Savoy Spider-wort.	Hemero- callis
Lilio-asphodelus, Tourn.	Day Lily, or Lily Af- phodel	Hemero- callis
Lilio-hyacinthus, Tourn Lilioanarcissus, Tourn.		Scilla Amaryllis
Lilium convallium, Tour Linnopeuce, Vaill. A. G	Lily of the Valley	Convallaria Hippuris
Limodorum, Tourn.	Purple Bird's Neft	Orchis
Limon, Tourn.	Lemon	Citrus
		Limo-

Generic Names rejected.	English Names.	Linnæan Genera.
Limonium, Tourn.	Sea Lavender	Statice
Linagrostis, Mich. &	Cotton Grafs	Eriophorum
Linaria, Tourn.	Toad Flax	Antirrhinum
Lingua cervina, Tourn.	Hart's Tongue	Asplenium -
Linocarpon, Mich.	Least Rupture-wort, or All Seed	Linum
Lirium, Roy.	Lily	Lilium
Lithophyton, Tourn.	•	Lithoxylon
Lonchitis, Tourn.	Rough Spleen-wort	Polypodium
Luffa, Tourn. A. G. Dill. gen. & Elth.		Momordica
Lunularia, Mich.		Marchantia
Lupinaster, Buxb.		Trifolium
Lupulus, Tourn.	Нор	Humulus
Luteola, Tourn.	Wild Woad, or Dyer's Weed	s Refeda
Lychnidea, Dill. Elth. Lychni feabiofa, Boerh.	Baftard Lychnis	Phlox Knautia
Lycogala, Mich.		Mucor
Lycoperdastrum, Mich.		Lycoperdon
Lycoperdoides, Mich.		Lycoperdon
Lycoperficon, Tourn.	Wolf's Peach, or Love Apple	
Lycopodioides, Dill.		Lycopodium

M

marachodendron, miner.		otewartia
Malacoides, Tourn.	Baftard Mallow	Malope
Malva, Tourn.	Rofe Mallow, or Holly-hock	
Malvaviscus, Dill. Elth.	Berry-bearing hibifcus	Hibiscus
Malvinda, Dill. Elth.	Indian Mallow, with fingle Seeds	Sida
Malus, Tourn.		Pyrus
Mamei, Plum.		Mammea
Mancanilla, Plum.	Manchineel	Hippomane
Mangles, Plum.	Pee-kandeloftheIndians	Rhizophora
Mangostans, Garc. A A		Garcinia
		Ma-

GENERIC NAMES English Names. LINNEAN REJECTED. GENERA. Manihot, Tourn. & Dill. Cassava Jatropha Maurocenia, Lin. gen. pl. Hottentot Cherry Cassine Ed. prim. Mays, Tourn. Indian,orTurkeywheat Zea Snail Trefoil, and Medic Medicago Medica, Tourn. or Lucern grass Melanoschoenus, Mich. Round black-headed Schoenus gen. Marsh Rush, or Bog Melilobus, Mitch. Three-Thorned Acacia Gleditsia Melilotus, Tourn. Melilot Trifolium Melo, Tourn. Melon Cucumis Melocactus, Tourn. Melon Thistle Cactus Mad Apple, or Egg Melongena, Tourn. Solanum Plant Buckler Gourd Cucurbita Melopepo, Tourn. Trailing Arbutus Superb Lily Memecylum, Mich. Epigæa Methonica, Tourn. Gloriosa Athamanta Meum, Tourn. Spignel Michelia, Houst. A. A. Pontederia Michelia, Amm. Att. Pet. Ginelina Frog's Bit Hydrocharis Microleuconymphæa, Beerh. Achillea Millefolium, Tourn. Yarrow, or Milfoil Ophiorrhiza Mitra, Houst. Ophiorrhiza Mitreola, Lin. gen. pl. Ed. prim. Moldavica, Tourn. Turkey, or Moldavian Dracocephalum Baum Schinus Molle, Tourn. Peruvian Mastich Moluccella Molucca, Tourn. Molucca Baum MolywithLilyFlowers, Allium Moly, Boerh. or Homer's Moly Spondias Monbin, Plum. Brafilian Plum Monilifera, Vaill. A. G. Hard-seeded Chrysan-Osteosperthemum Waltheria Monospermalthæa, Isnar. A.G. Montia, Houft. A. A. Heliocarpos Blite, or Strawberry Blitum Morocarpus, Rupp. Spinach Morfu, ranæ, Tour. A. G. Frog's Bit. Hydrocharis MofGENERIC NAMES REJECTED.

ENGLISH NAMES.

Linnæan GENERA.

Moschatellina, Tourn.

Mucilago, Mich. Murucuja, Tourn. Muscari, Tourn. Muscoides, Mich.

Mvosotis, Tourn. Myosuros, Dill. gen. Myrobatindum, Vaill. A. G.

Tuberole Moschatel, or Adoxa Hollow Root

Passion Flower Grape Hyacinth

Mucor Passistora Hyacinthus Jungermannia

Mouse-ear Chickweed Cerastium Myofurus Mouse Tail American Viburnum

Narcisso-Leucojum, Tour. Greater Snow drop Nasturtium, Tourn. Nelumbo, Tourn. Nhandiroba, Plum. Ninsi, Breyn. diss. Nummularia, Nov. gen. Nux, Tourn. & Boerb. Nymphoides, Tourn.

Cress Indian Water Lily

Ginseng

Walnut LeffervellowWaterLily Menyanthes with fringed Flowers

Leucojum Lepidium Nymphwa Fevillea Panax Holosteum juglans

0

Obeliscotheca, Vaill. A. G. & Dill. Elth. Ochrus, Tourn. Odontitis, Dill. gen. Omphalodes, Tourn. Onagra, Tourn. Onobrychis, Tourn.

Ophris, Tourn. Opulus, Tourn. & Vaill. A. G. Opuntia, Tourn.

Orchidion, Mitch. Oreoselinum, Tourn. Ornithopodium, Tourn.

Rudbeckia Dwarf Sun-flower

Wild winged Pea Pitum RedMeadowEyebright Euphrasia Venus's Navel-wort Cynogloflum Tree Primrose Oenothera Cock's Head, or Saint Hedylarum Foin

Ophrys Twy Blade Marth Elder, or Gelder Viburnum Indian Fig, or Prickly Cactus

Pear

Mountain Parsley Bird's Foot

Arcthusa Athamanta Ornithopus Ornus,

GENERIC NAMES ENGLISH NAMES. LINNÆAN REJECTED. GENERA Ornus, Mich. Afh Fraxinus Orobanchoides, Tourn. Monotropa A. G. Oftrya, Mich. Hornbeam Carpinus Marsh WhortleBerries, Vaccinium Oxycoccus, Tourn. MossBerries, or Moor Oxyoides, Garc. A. A. Sensitive Wood Sorrel Oxalis Wood Sorrel Oxys, Tourn. **Oxalis** P Padus, Lin. gen. pl. Ed. Bird Cherry Prunus prim. Paliurus, Tourn. Christ's Thorn Rhamnus Panacea, Mitch. Ginfeng Panax Panicastrella, Mich. Cenchrus Papaya, Tourn. Papaw Carica Papia, Mich. Orvala Mountain Knot-grass Paronychia, Tourn. Illecebrum Parthenium Partheniastrum, Niss. A. Baitard Feverfew G. Dill. gen. & Elth. Patagonica, Dill. Elth. Patagonula Pavia, Boerb. Scarlet Horse Chestnut Æsculus Pedicularis species, Tour. Yellow Rattle, Cocks- Rhinanthus comb, or Loufe-wort Clusius's foreign Hat- Biserrula Pelecinus, Tourn. chet Vetch Penwa, Plum. TreeMilk-wort, with aPolygala rough Box Leaf Pifonia Pentagonotheca, Vaill. Fingrigo Pentaphylloides, Tourn. Cinquefoils, whose Potentilla Leaves are not quite quinate Water Milfoil Myriophyl-Pentapterophyllum, lum Dill. gen. Pepo, Tourn. Cucurbita Pumpion Percepier, Dill. gen. Parsley Piert Aphanes Pereskia, Plum. Lin. Gooseberryof the Ame-Cactus ricans, or Blad Apple gen. pl. Ed. prim. Trumpet Honey fuckleLonicera Periclymenum, Tourn. Per-

ENGLISH NAMES. LINNÆAN GENERIC NAMES GENERA. REJECTED. Avocado, or Avogato Laurus Persea, Plum. Pear Amygdalus Persica, Tourn. Peach Persicaria, Tourn. Arse-smart, or Persicaria Polygonta Pervinca, Tourn. Periwinkle Vinca Petasites, Tourn. & Vaill. Butterburr, or Pestilent-Tussilago Arse-smart, or Persicaria Polygonum Petilium, Lin. gen. pl. Crown Imperial. Fritillaria Ed. prim. Phalangium, Tourn. Spider-wort Anthericum Phallus Phalloboletus; Mich. Phillyreaitrum, Vail. Morinda A. G. Pilosella, Vaill, A. G. Creeping Mouse-ear Hieracium Pimpinella, Tourn. Burnet Poterium Pinaftella, Dil. gen. Hippuris Pinguin, Dill. Elth. Wild Ananas Bromelia Pittonia, Plum. Tournefortia Plantaginella, Dill. gen. Least Water Plantain Limofella Plantanocephalus, Vaill. Button-wood Cephalauthus A. G. Poliifolia, Buxb. A. R. Marsh Cistus, or Wild Andromeda Rosemary Poley Mountain Teucrium Polium, Tourn. Casaubon's Thistle, sup-Carduus Polyacantha, Vaill. posed the true Fish A.G. Thistle or Acarna of Theophrastus Polygaloides, Dill. gen. Mi'k-wort Polygala Polygonatum, Tourn. Solomon's Seal Convallaria Polygonifolia, Dill. gen. Corrigiola Polygonoides, Tourn. Calligonum Polyporus, Mitch. Populago, Tourn. Boletus Marsh Marigold Caltha Porophyllum, Vaill. Cacalia with perforate Cacalia A. G. Leaves Porrum, Tourn. Leck Allium Portula, Dill. gen. Water Purslane Pep!is Portulacastrum, B. Jus. Horse Purssane Trianthema Potamopithys, Buxb. Elatine A. R.

Primula

Pro-

Primula veris, Tourn. Primrose

GENERIC NAMES ENGLISH NAMES. LINNEAN REJECTED. GENERA-

Provenzalia, Petit. Gen. Water Dragons Calla Pseudoacacia, Tourn. False Acacia Robinia Pseudocyperus, Mich. Pseudodictamnus, Tourn. Bastard Dittany Schoenus Marrubium. Pseudoruta, Mich. Three leaved Rue Ruta Pfyllium, Tourn. Flea-wort Plantago Ptarmica, Tourn. Sneeze-wort, Bastard Pel Achillea litory, or Goose-tongue

Pterocephalus, Vail A.G. Scabious Scabiofa Pterospermadendron, Am Pentapetes Pasque Flower Pulsatilla, Tourn. Anemone

Quamoclit, Tourn. Ipomoea Potentilla. Quinquefolium, Tourn. Cinquefoil Quinquina, Condam. A.G True Jesuits Bark Tree Cinchona

R

Sifymbrium Radicula, Dill. gen. Water Radish Radiola, Dill. gen. Least Rupture-wort, or Linum All Seed Ranunculus Ranunculoides, Va. A.G. Water Crowfoot Braffica Rapa, Tourn. Turnep Whiteflowered Charlock Raphanus Raphanistrem, Tourn. with jointed Pods. Crambe Rapistrum, Tourn. Sea Cabbage Phyteuma 1 4 1 Rampions Rapunculus, Tourn. Rapuntium, Tourn. & Lobelia Cardinal Flower $Dill.\ Elth.$

Rhubarb Rheum Rhabarbarum, Tourn. Hyoferis Rhagadioloides, Va.A.G Lapfana Rhagadiolus, Vaill. A.G. & Tourn.

Bastard Rhamnus, or Sea Hippophae Rhamnoides, Tourn. Buckthorn

Centaurea Rhaponticoides, Vaill. Centaury Centaurea Rhapontium, Vaill. Centaury Currant Tree Ribes Ribesium, Dill. Elth. .Acalypha Ricinocarpus, Boer & Bur Bastard Ricinus Croton. Ricinoides, Tourn.

Rivinia Rivina, Plum.

Roy-

Sili-

GENERIC NAMES	English Names.	LINNÆAN
REJECTED.		GENERA.
<i>R2</i> ,20122.		- 4.4
Royenia, Houst. A. A.		Loeselia
Rojoc, Plum.	_ 2	Morinda
Ros folis, Tourn.	Sun-dew	Drofera
Rubeola, Tourn.	Petty Madder	Crucianella
Rudbeckia, Houst. A. A.	Button-tree	Conocarpus
Ruppia, Act. Ang.	Grafs Wrack	Zostera
Ruta muraria, Tourn.	Wall-rue, or Tent-work	Aipienium
S		
9		
Sabina, Boerh.	Savine	Juniperus
Sagitta, D. g. & V. A. G.	Arrow-head	Sagittaria
Salicaria, Tourn.	Willow-herb, or Purple	Lythrum
	Loosestrife	3.6. (1
Salvinia, Mich.		Marsilea
Santolinoides, Vaill. A.		Anacyclus
G. & Mich. gen. Sapota, Plum.	Sapota	Achras
Sassafras, Offi	Sassafras Tree	Laurus
Saururus, Plum.	Lizard's Tail	Piper
Schunda Pana, Hort. Mal.		Caryota
Scirpocyperus, Mitch.	Rush Grass	Scirpus
Scirpoides, Mont.		Carex
Sclarea, Tourn.	Clary	Salvia
Scorodoprasum, Mich.	Great round-headed, or	
1	Turkey Garlick	
Scorpioides, Tourn.	Caterpillars	Scorpiurus
Scorzoneroides, Va. A. G		Scorzonera
Sebestena, Dill. Elth.	Sebesten	Cordia
Securidaça, Tourn.	The True Hatchet	Coronilla
	Vetch, or Sickle-wo	rt
Sedi species, Tourn.	Houseleek	Sempervi-
		vum
Selaginoides, Dill. Muse.		Lycopodium
Selago, Dill. Musc.	Upright Fir Moss	Lycopodium
Senecionis species, D. Elt		Erigeron
Senna, Tourn.	Senna of the Shops	Cassia
Seriana, Plum.	7017	Paullini2
Sesamoides, Tourn.	Bastard Rocket	Refeda
Sherardia, Vaill.	Vervain	Verbena
Sherardia, Pont. Epist.	0: 1 0 1 10	Galenia
Sicyoides, Tourn.	Single-seededCucumbe	
Siliqua, Tourn.	Carob-tree, or St. John	'sCeratonia
	Bread	0***
	Y ž	Sili

GENERIC NAMES REJECTED.	ENGLISH NAMES.	LINNÆAN GENERA.
Siliquastrum, Tourn.	Judas trce	Cercis
Silybum, Vaill. A. G.	Milk Thistle, or Lady's Thistle	Carduus
Sinapi, Tourn.	Mustard	Sinapis
Sinapistrum, Tourn.	Bastard Mustard	Cleome
Siphonanthemum, Amm. Act. Petrop.		Siphonan-
Sifarum, Tourn.	Skirret	Sium
Sifyrinchium, Tourn.	Iris with a double Bulb,	Iris
CI DI	called Spanish Nut	04
Sloana, Plum.	Apeiba of the Brasilians	
Solanoides, Tourn. A. G.		Rivina
Sorgum, Mich.	Indian Millet	Holcus
Spartium, Tourn.	Single-feeded Broom	Genista
Sphondylium, Tourn.	Cow Parfnep	Heracleum
Sphondylococcos, Mitch.	Johnsonia	Callicarpa
Stachyarpagophora, Vaill. A. G.	Cock's comb	Celosia
Staphylodendron, Tourn.	Bladder Nut	Staphylæa
Stellaria, Dill. gen.		Callitriche
Stellaris, Dill. gen.	Yellow Star of Bethlem	Ornithoga- lum
Stechas, Tourn.	French Lavender	Lavandula
Stramonium, Tou. & Pont	Thorn Apple	Datura
Stratiotes, Vaill. A. G.	Water Milfoil, or Water Violet	
Stratiotes, Dill. gen.	Frog's Bit	Hydrocharis
Struthia, Royen.	8	Gnidia
Suber, Tourn.	Cork-tree.	Quercus
Succifa, Vaill. A. G.	Devil's-bit	Scabiosa
Suillus, Mich.		Boletus
Symphoricarpos, Dill. El.	Shrubby St. Peter's-wort	
Syringa, Tourn.	MockOrange, orfyringa	Philadelphus
- J. 1115a, 200.00		

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Tamarifcus, Tourn.	Tamarisk.	Tamarix
Tamnus, Tourn.	Black Bryony	Tamus
Tapia, Plum.	Garlick Pear	Crateva
Taraxaconastrum, V.A	.G.	Hyoferis
Taraxaconoides, V.A.		Lcontodon
Tarchonanthus, Va. A	a. Jesuit's Bark-tree, fa	lfely Iva
	fo called	

Te-

Generic Names rejected.	ENGLISH NAMES.	Linnæan Genera.
Telephiastrum, Dill. Elt.	African Purslane	Portulaca
Telephioides, T. &. D. Elt		Andrachne
Tenga, Hort. Mal.	Cocoa Nut	Cocos
Terebinthus, Tourn.	Turpentine-tree	Pistacia
Ternatea, Tourn. A. G.	Turpentine-ties	Clitoria
Tetrahit, Dill. gen.	Bastard Hemp	Galeopfis
Thlaspidium, Tourn.	Buckler Mustard	Biscutella
Thymbra, Tourn.	Savory, with verticillate	
1 Hymora, 1 ourn.	Flowers	
Thymelæa, Tourn.	Mezereon, or Spurge-	Daphne
mil mil m	Laurel	C-1:
Thysselinum, Tourn.	Milky Parsley	Selinum
Tinus, Tour. & Vail. A. G.	Lauruitinus	Viburnum
Titanokeratophyton, Bo.	D-4- 1 C	Lithoxylon
Tithymaloides, Tourn.	Bastard Spurge	Euphorbia
Tithymaloides (an) Klein Monagr.	nation-tree	Cacalia
Tithymalus, Tourn.	Spurge	Euphorbia
Tournefortia, Pont. Epis.	Amber-tree	Anthosper-
2 0000000000000000000000000000000000000	-	mum
Toxicodendron, Tourn.	Poison-tree	Rhus
Tragacantha, Tourn.	Goat's horn	Astragalus
Tragopogonoides, Vaill,	Goats-beard with	Tragopogon
A. G.	crooked Seeds	5-1-8-1
Tragoselinum, Tourn.	Burnet Saxifrage	Pimpinella
Tribuloides, Tourn.	Water Caltrops	Trapa.
Trichomanes, Tourn.	English black Maiden-	
,	hair	
Trifoliastrum, Mich.	WhitefloweredMeadov	Trifolium
	Trefoil, Honevsuckl	
	Grafs, or Dutch Clove	
Trilopus, Mitch.	Witch Hazel	Hamamelis
Triosteospermum, Dill.	Fever root, Doctor Tin	
Elth.	ker's Weed, or False	
	Ipecacuana	
Trixis, Mitch.	A	Proferpinaca
Tulipifera, Catesba	Tulip-tree	Liriodendron
Tuna, Dill. Elth.	IndianFig, or Prickly	
	Pear	
Tunica, Dill. Elth.	Pink	Dianthus
	V 2	Val

GENERIC NAMES REJECTED.

ENGLISH NAMES.

LINNEAR GENERA.

Valdia, Plum. Valerianella, Tourn & Vaill. Vallisneroides, Mich.

Vanilla, Plum. Vanrheedia, Plum. Vesicaria, Rivinus

Vesicaria, Tourn.

Virgaaurea, T. & V. A. G. Golden Rod Virga sanguinea, Dill.

Viscago, Dill. Elth.

Viticella, Mitch. Viticella, Dill. gen.

Vitis Idea, Tourn. Ulmaria, Tourn.

Unifolium, Dill. gen. Volubilis, Dill. Elth. Usnea, Dill. Musc. Uva ursi, Tourn.

Vulneraria, Tourn.

Ovieda Lamb's Lettuce, or Corn-Valeriana Sallad

Vanilla

Valisneria **Epidendrum** Rheedia

Heart-seed, or Heart-pea Cardiosper-

Madwort with bladdery Alysfum Pods

Solidago Female Dog-wood, DogCornus berry, or Gatter-tree

Viscous Campion, or Catch-fly

Galax Clematis Virgin's Bower, or Lady's Bower

Vaccinium Whortle Berry Meadow-sweet, or Queen Spiræa

of the Meadows Convallaria One-blade

Ipomoea Tree Moss Lichen

Spanish Redwhorts, or Arbutus Bearberries

Kidney Vetch, or Lady's Anthyllis Finger

Xeranthemoides, D. Elth.

Xiphium. Togrn. Xylon, Lin. gen. pl. Ed. pr. Silk Cotton-tree Xylon, Tourn. Xylosteum, Tourn.

Bulbous Iris Cotton

Bombax Goffypium Lonicera Fly Honeysuckle

Zacintha, Va. A. G. & T. Wart Succory Zanonia, Plum. Jujube-tree Ziziphus, Tourn.

Laplana Commelina Rhamnus APPEN

Xeranthemum

PPENDIX.

A TABLE, containing fuch English Names of Plants as have been most generally received, whether Specific or Generic; and shewing the Titles of the Genera under which they are feverally ranged in the LINNÆAN System.

N. B. The English Titles are distinguished by the Roman Characters, and the LINNEAN by the Italic .- The Latin Names in common Use, such as Anemone, Ranunculus, &c. are omitted in this List, being to be found in the first Table.

Abele, Populus Abelmosk, *Hibiscus* Acacia, Mimoja Acacia, false, Robinia Acacia, German, Prunus Acacia, three thorned, Gleditsia All-heal, Clowns, Stachys Acajou, Anacardium Aconite, Aconitum

Aconite, Winter, Helleborus Adam's Apple, Citrus Adam's Needle, Yucca Adder's-wort, Polygonum Adder's Tongue, Ophioglossum

Agaric, Agaricus Agnus castus, Vitex Agrimony, Agrimonia Agrimony, Bastard, Agrimenia Alysson, Roughleaved, Sabularia Agrimony, Hemp, Eupatorium Amaranth, Amaranthus

Agrimony, Naked-headed Hemp Amellus of Virgil, After Verbefina

Ague Tree, Laurus Alaternus, Bastard, Phylica Ananas, Wild, Bromelia

Alder, Betula Rhamnus

Ale-cost, Tanacetum Ale-hoof, Glechoma Alexanders, Smyrnium Alkali, Sulicornia Alkanet, Lithospermum Alkekengi, Physalis All-good, Chenopedium

All-heal, Hercules's, Pastinaca All-heal, Hercules's, Heracleum

All-feed, Linum All-spice, Myrtus Alligator Pear, Laurus Almond, Amygdalus

Almond, African, Brabejum Adragant, Gum, fee Tragacanth Almond, Ethiopian, Brabejum Aloe, American, Agave Aloe, Water, Stratiotes Althæa frutex, Hibiscus

Agrimony, Bastard Hemp, Age-Amaranth, Globe, Gomphrena Amber Tree, Anthospermum

Amomum, Plinii, Solanum Agrimony, Water Hemp, Bidens Amomum, German, Sifon

Ananas, Bromslia Anemone, Wood, Anemone

Alder, Black or Berry-bearing, Angelica, Berry-bearing, Aralia An-

,328 PPENDIX.

Angelica, Wild, Ægopodium Asp, or Aspen Tree, Populus Angelica Tree, Aralia Anise, Pimpinella Anotta, Bixa Apeiba of the Brasilians, Sloanea Asphodel, Lily, Crinum Apple, Pyrus Apple, Adam's, Citrus Apple, Blad, Cactus Apple, Custard, Annona Apple, Love, Solanum Apple, Mad, Solanum Apple, Male Balfam, Momordica Auricula, Borrage-leav'd, Ver-Apple May, Podophyllum Apple, Pine, Bromelia Apple, Purple, Annona Apple, Soap, Sapindus Apple, Sour, Annona Apple, Star, Chrysophyllum Apple Sugar, Annona Apple, Sweet, Annona Apple, Thorn, Datura Apple, Water, Annona Apricot, Prunus Arbor Vitæ, Thuya Arbutus, Trailing Epigæa Archangel, Lamium Archangel, Baum-leav'd Melittis Balfam Tree, Clusia Archangel, Yellow, Galeopsis Arrowhead, Sagittaria Arrow-headed Grass, Triglochin Balsamine, Female, Impatiens Arrow-root, Indian, Maranta Arfe-imart, Polygonum Artichoke, Cynara Artichoke, Jerusalem, Helianthus Banian Tree, Ficus Arum, African, Calia Arum, Floating, Orontium Afarabacca, Afarum Ash, Fraxinus 12sh, Mountain, Sorbus Barren-wort, Epimedium Ash, Poison, Rhus Asparagus, Climbing African Base-tree, Trefoil, Cytisus

Medeola

Asphodel, Asphodelus Asphodel, African, Anthericum Asphodel, Lily, Hemerocallis Asses Cucumber, Momordica Atamasco Lily, Amaryllis Avens, Geum Avocado Pear, Laurus Avogato, Pear, Laurus Auricula, Primula bascum Ax-vetch, see Hatchet-vetch Azarole, Cratægus Azerira, Prunus

Balaustine, Punica Balm, see Baum Balm of Gilead * Balm of Gilead, false, Dracocephalon Balsam, Impatiens Balfam of Tolu, Toluifera Balfam Apple, Male, Momordica Balsam Tree, Pistacia Balsam Tree, Copaifera Bambu Cane, Arundo Banana, *Mufa* Bane-berries, Actaa Bark, True Jesuits's, Cinchona Bark, False Jesuit's, Iva Bark, Ilathera, Clutia Bark, Winter's, Laurus Barley, Hordeum

* This is the Balfamum Syriacum Rutæ folio of Caffar Baulin, and seems to be omitted by Linnaus. Bafil

Bafil, Ocimum

Blinks

Basil, Field, Clinopodium Bafil, American Field, Monarda Bell-Pepper, Capficum Bafil, Syrian Field, Zizipkora Belladona Lily, Amaryllis Bafil, Syrian Field, Zizipkora Bafil, Stone, Thymus Bafil, Wild, Thymus Batchelor's Buttons, *Lychnis* Batchelor's Pear, Solanum Baum, *Meliffa* Baum, Battard, Melittis Baum, Moldavian, Dracocepha-Betony, Betonica Baum, Molucca, Moluccella Baum, Turkey, Dracocephalum Bay, Laurus Bay, Loblolly, Gordonia Bay, Rofe, Nerium Bay, Dwarf Rose, Rhododendrum Birdweed, Rough, Callax Bay, Mountain Rose, Rhododen-Birch, Betula drum Bay, Sweet-flowering, Wagnolia Bird cherry, Frunus Bay Plum, *Pfidum* Bead Tree, Alclia Bean, Vicia Bean, Bog, Menyanthes Bean, French, Prafeslus Bean, Kidney, Phafoolus Bean Tree, Kidney, Chicine Bean Tree of America, Erythrina Bilhop's-wesu, Anna Bean Tree, Binding, Mimifa Bean Caper, Zygophyllum Bean Trefoil, Cytijus Bean Trefoil, Stinking, Anagyris Bitter-vetch, Livas Bear-herries, Arbutus Bear-bind, Convolvulus Bear's-breech, Acanthus Bear's-ear, Primula Bear's-ear, Sanicle, Cortufa Bear's-foot, Helleborus Beard, Old Man's, Clematis Beech, Fugus Beet, Beta Bee-flower, Ophrys Behen, White, Cucubalus Bell-flower, Campanula Bells, Canterbury, Campanula Bleffed Thiftle, Cuicus Bells, Coventry, Campanula

Bells, Hair, Hyacinthus Belvidere, Chencpodium Belly-ach-weed, Jatrepha Benjamin Tree, Laurus Bennet, Herb, Gewan Berberry, *Earbaris* Bermudiana, Sijyrinchium Betony, Paul's, Veronica Betony, Water, Screphularia Big, Hordeum Bilberry, Vaccinium Bindweed, Convolvulus Bindweed, Black, Tomus Birch of Jamaica, Pifacia Bird Pepper, Cafficum Bird's Eye, Ado .:s Bird's Foot, Orni Lotus Bird's Foot Trefeil, Lans Bird's New, Oplays Bird's Nest, Purple, Corbs Birth-wort, Arithologica Bistort, Polysoners Bitter-goald, Calary Buter-Iweet, E.h. . m Bitter-vetch, Or ins Bitter-vetch, Jointed podded, ErwanBitter-wort, Gentiana Blackberry, Rubis Blad Apple, Coctus Bladder Nut, Si phylica Bladder Nut, African, Royena Bladder Nut, Laurel leaved, Ilc. Bladder Senna, *Golutea* Bladder Senna, Jointed podded, Coronilla

Blinks, Montia Blite, Blitum Blite, Amaranthus Blood-flower, Hæmanthus Blood-wood, Hæmatoxylon Blood-wort, Rumex Blue bottle, Centaurea Bogbean, Menyanthes Bogberries, Vaccinium Bogwhorts, Vaccinium Bonduc, Guilandina Bonnet Pepper, Capsicum Bore-cole, Brassica Borrage, Borrago Bottle-flower, Centaurea Box, Buxus Box, African, Myrsine Box, Low, Polygala Boxthorn, Lycium Brakes, Pteris Bramble, Rubus Brank, Polygonum Brank, Ursine, Acanthus Brasiletto, Cæsalpina Break-stone, Saxifraga Break-stone, Pariley, Aphanes Briar, Sweet, Rosa Briar, Wild, Roja Brimstone-wort, Peucedanum Bristol, Flower of, Lychnis Broccoli, Brassica Brooklime, Veronica Broom, Spartium Broom, African, Afpalathus Broom, Dyer's, Genista Broom, Dwarf, Genista Broom, Single seeded, Genista Broom, Rape, Orohanche Broom Rape, with great Purple Caltrops, Water, Trapa Flowers, Lathræa Brown-wort, Scrophularia Brown-wort, Prunella Bryony, Bryonia Bryony, Black, Tamus Buckler, Mustard, Biscutella

Bucks-horn Plantain, Plantago

Bucks-horn, Warted, Cochlearia Buck-thorn, Rhamnus Buck-thorn, Sea, Hippophaë Buck-wheat, Polygonum Bugbane, see Bogbean Bugle, Ajuga Bugloss, Anchusa Bugloss, Small wild, Asperugo Bugloss, Viper's, Echium Bullace Tree, Chrysophyllum Bullace Tree, Prunus Burdock, Artlium Burdock, Leffer, Xanthium Burnet, Garden, Poterium Burnet, Greaterwild, Sanguisorba Burnet, Saxifrage, Pimpinella Burning thorny Plant, Euphorbia Burr Reed, Sparganium Butcher's Broom, Ruscus Butter Burr, Tuffilago Butter-wort, Pinguicula Button Tree, Conocarpus Button Weed, Spermacoce Button Wood, Cephalanthus

Cabbage, Braffica Cabbage, Dog's, Theligonum Cabbage, Sea, Crambe Cabbage Tree, Cacalia Calabash, Cucurbita Calabash Tree, Crescentia Calamint, Melissa Calamint, Water, Mentha Cale, Braffica Cale, Sea, Crambe Caltrops, Tribulus Calve's Snout, Antirrhinum Cammock, Ononis Campeachy Wood, Hamatoxylon Camphor Tree, Laurus Campion, Angrostema Campion, Lychnis Campion

Campion, Viscous, Silene Canary-grass, Phalaris Candleofthe Indians, see Kandel Centaurey, Centaurea Candleberry Myrtle, Myrica Candy Carrot, Athamanta Candy Lion's Foot, Catananche Chamomile, Anthemis Candy Tuft, Iberis Candy Tuft Tree, Iberis Cane or Reed, Arundo Cane, Sugar, Saccharum Canterbury Bells, Campanula Caper-bush, Capparis Caper, Bean, Zygophyllum Caraway, Carum Cardinal-flower, Lobelia Carline Thistle, Carlina Carnation, Dianthus Carnation, Spanish, Poinciana Carnation Tree, Cacalia Carob Tree, Geratonia Carrot, Daucus Carrot, Candy, Athamanta Carro, Deadly, Thapfia Carui, Carum Cashew-nut, Anacardium Cassava, Jatropha Cassia, Poet's, Osyris Cassidony, Gnaphalium Caffiobury Bush, Caffine Catchfly, Silene Catmint, Nepeta Cat's-foot, Glechoma Cat's-footMountain, gnaphalium Chickweed, Berry-bearing, Cat's-tail, Typha Caterpillars, Scorpiurus Cauliflower, Braffica Cedar, Juniperus Cedar of Jamaica, Bastard, Theobroma Cedar, White, Cupressus Cedar of Bulaco, Cupressus Cedar of Libanus, Pinus Celandine, Chelidonium Celandine, Lesser, Ranunculus Celandine, Tree, Bocconia

Celeriac, Apium Celery, Apium Centaury, Lesser, Gentiana Ceterach, Ajplenium Chardon, Cynara Charlock, Sinapi Charlock, White-flowered, with jointed Pods, Raphamus Chaste Tree, Vitex Cheese Rennet, Galium Cherry, *Prunus* Cherry, Barbadoes, Malpighia Cherry, Bird, Prunus Cherry, Cornelian, Cornus Cherry, Dwarf, Lonicera Cherry, Hottentot, Cassine Cherry, Winter, Physalis Cherry, Winter, Solanum Cherry of the Alps, Lonicera Cherry Laurel, Prunus Chervil, Garden, Scandix Chervil, Wild, Charophyllum Chestnut, Fagus Chestnut, Horse, Æsculus Chestnut, Indian Rose, Mesua Chich Peafe, Gicer Chiches, Cicer Chichling Vetch, Lathyrus Chickweed, Alfine Chickweed, African, Mollugo Cucubalus Chickweed, Great, Stellaria ChickweedMountain, moehringia Chickweed, Mouseear, Cerastium Chickweed, Small water, Montia China Root, Smilax China, Rose, Hibiscus Chinquapin, Fagus Chocolate-nut, Torobroma Cristmas Rose, Helleborus Christopher, Herb, Actaa

Christ's-Thorn, Rhamnus

Chry.

Chryfanthemum, Bastard, Sil- Columbine Feathered, Thalicphium Chrysanthemum, Hard-seeded, Colutea, Jointed-podded, Co-Osteospermum ronilla Ciboules, Allium Comphry, Symphytum Cicely, Sweet, Scandix Confound, Greater, Symphytum Cinnamon Tree, Laurus Consound, Lesser, Bellis Cinnamon, White, Laurus Confound, Middle, Ajuga Cinquefoil, Potentilla Confound, Royal, Delphinium Cinquefoil, Marsh, Comarum Condfound, Saracen's Solidago Cistus, Marsh, Ledum Confound, the True Saracen's, Ciftus, Lesser Marsh, Andromeda Cistus, Nettle-leaved, Turnera Contrayerva, Dorstenia Cistus, Rape of, Afarum Contrayerva of Hernandez, Citron, Citrus Passifior a Citrul, Cucurbita Convall, Lily, Convallaria Cives, Allium Coral Tree, Erithrina Clary, Salvia Coriander, Coriandrum Clary, Pyrænean, Horminum Cork Tree, Quercus Clivers, Galium Corn, Indian, Zea Clove July Flower, Dianthus Corn Flag, Gladiolus Clove Tree, Caryophyllus Corn Marigold, Chryfanthemum Clover, Trifolium Corn Parsley, Sison Clover, Dutch, Trifolium Corn Rocket, Bunias Clown's, Allheal, Stachys Corn Rose, Papaver Clown's Wound-wort, Stachys Corn Sallad, Valeriana Cob-nut, Corylus Cornel Tree, Cornus Cock's-comb, Celofia Cornelian Cherry, Cornus Cock's-comb, Pedicularis Coitmary, Tanacetum Cock's-comb, yellow Rhinanthus Cotton, Goffypium Cock's-head, Hedyfarum Cotton, Lavender, Santolina Cocoa-nut, Cocos Cotton Tree, Silk, Bombax Cocoa-plumb, Chrysobalanus Cotton Grass, Eriopherum Codlin Tree, Pyrus Cotton Weed, Filago Codlins and Cream, Epilobium Coventy Bells, Campanula Coffee Tree, Coffea Courbaril, Hymenæa Cole-seed, Braffica Cowslip, Primula Cole-rape, Braffica Cowslip, American, Dodecatheon Cole-wort, Brassica Cowslip, Jerusalem, Pulmonaria Cowslip, Mountain, Pulmonaria Cole-wort, Sea, Crambe Cole-wort, Sea, Convolvulus Cow's Lung-wort, Verbascum Coloquintida, Cucumis Cow Parinep, Heraclium Colt's-foot, Tuffilago Cow Weed, Chærophyllum Colt's-foot, Alpine, Cacalia Cow Wheat, Melampyrum Colt's-foot, Foreign, Cacalia Coxcomb, fee Cock's comb Columbine, Aquilegia

Crab Tree, Pyrus

Crake-

Crake-berries, Empetrum Cranberries, Vaccinium Crane's Bill, Geranium Creeper, Virginian, Hedera Cress, Lepidium Cress, Indian, Trepæolum Cress, Sciatica, Iberis Cress, Spanish, Vella Crefs, Swine's, Cochlearia Cress, Wall, Turritis Crefs, Warted, Cochlearia Crefs, Water, Sifymbrium Cross, Winter, Erisymum Cross, Jerusalem, Lychnis Cross, Knights, Lychnis Cross, Scarlet, Lychnis Cross-wort, Valantia Crowberries, Empetrum Crow-foot, Ranunculus Crown Imperial, Fritillaria Cuckow-flower, Cardamine Cuckow Pint, Arum Cucumber, Cucumis Cucumber, Asses, Momordica

Cucumber, Egyptian, Momordica Deadly Nightshade, Atropa Cucumber, Serpent, trichofanthes Devil in a Bush, Nigella Cucumber, Single-seeded, Sicyos Devil's Bit, Scabioja Cucumber, Small creeping, Me-Devil's Bit, Yellow, Leontodon

lothria Cucumber, Spirting, Momordica Dier's Broom, Genista Cucumber, Wild, Momordica Cudweed, Gnaphalium Cudweed, Bastard, Micropus

Cullions, Soldier's, Orchis

Cumin, Bastard, Lagacia Cumin, Wild, Lagarcia Cup Mushroom, Peziza

Currant Tree, Ribes Cushion Ladies, Saxifraga

Custard, Apple, Annona

Cypress, Cupressus

Cullions, Orchis

Cumin, Cuminum

Cushion, Sea, Statice

Cypress, Summer, Chenopodium Dog's Bane, Afclepias

Daffodil, Narcissus Daffodil, Lily, Amaryllis Daffodil, Lily, Pancratium Daffodil, Sea, Pancratium

Daify, Bellis

Daify, Blue, Globularia Daify, Globe, Globularia

Daify, Greater, Chrysunthemum Daify, Middle, Doronicum

Daify, Ox-eye, Chryfanthemum

Dame's Violet, Hesperis Damson Tree, Prunus

Damson Tree, Chrysophyllum

Dandelion, Leontodon Dane-wort, Sambucus

Darnel, Lolium Date Plum, Indian, Diospyros

Date Tree, Phænix Day Lilv, Hemerocallis Dead Nettle, Lamium

Dead Nettle, Yellow, Galeopfis

Deadly Carrot, Thappa

Dewberry Bush, Rubus

Dier's Weed, Rejeda Dier's Weed, Genista

Dill, Anethum Distass Thistle, Atractylis Distaff Thistle, Carthamus

Dittander, Lepidium Dittany, Origanum

Dittany, Bastard, Marrubium Dittany, White, Distamnus

Dock, Rumex

Doctor Tinker's Weed, Triofteum

Dodder, Cuscuta

Dodder of I'hyme, Cuscuta Dog's Bane, Apocynum

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Dog's Cabbage, Theligonum Dog's Rue, Scrophularia Dog's Stones, Orchis Dog's Tooth, or Dog's Tooth Eternal Flower, Gomphrana Violet, Erythronium Dogwood, Cornus Dogwood of Jamaica, Erythrina Everlasting, Xeranthemum Double Tongue, Ruscus Dove's Foot, Geranium Dragons, Dracontium Dragons, Arum Dragon's Head, Dracocephalum Euonymus, Bastard, Celastrus Dragon's Water, Calla Dragon's Wort, Artemisia Dragon, Gum, see Tragacanth Dragon, Wild, Artemisia Drop-wort, Spiræa Drop-wort, Hemlock, Oenanthe Felwort, Gentiana Drop-water, Oenanthe Duck's-meat, Lemna Duck's-meat, Starry, Callitriche Fennel, Hog's, Peucedanum Duck's-foot, Podophyllum Dwale, Airopa

Dog Berry, Cornus

E

Ebony, Cretan, Ebenus Ebony, False, Poinciana Ebony of the Alps, Cytifus Ebony, Mountain, Bauhivia Edders, Arum Egg Plant, Solanum Eglantine, Rosa Elder Tree, Sambucus Elder, Marsh, Viburnum Elecampane, Inula Elecampane, Bastard, Helenia Elemi Tree, Gum, Pistacia Elephant's Foot, Elephantopus Elephant's Head, Rhinanthus Elichrysum, Bastard Ethiopian Stiebe Elm, Ulmus

Enchanter's Nightshade, CircaaFig, Ficus

Endive, Cichorium

Eryngo, Eryngium Eschalot, Allium Eternal Flower, Xeranthemuin Eternal Flower, Gnaphalium Evergreen, Aizoon Evergreen, Semper-vivum Everlasting, Gomphræna Everlasting, Gnaphalium Euonymus, Climbing, Celastrus Euonymus, Bastard, Kiggellaria Eye-bright, Euphrasia

Farting Tree, Hura Faufel Nut, Areca Felon-wort, Solanum Fennel, Anethum Fennel, Scorching, Thapfia Fennel, Sea, Crithmum Fennel Flower, Nigella

Fennel Flowerof Crete, Garidella Fennel Giant, Ferula

Fenugreek, Trigonella Fern, Common Male, Polypodiums Fern, Common Female,

Polypodium Fern, Flowering, Ofmunda Fern, Common, or True Mule's, Aspleniam

Fern, Mule's, Hemionitis Fern, Sweet, Scandix Feverfew, Matricaria Feverfew, Bastard, Partheniums Fever-root, Triosteum Fever-weed, Eryngium Fiddle-wood, Citharexylum

Field Basil, Clenopodium Field Basil, American, Monards Field Basil, Syrian, Ziziphora

Fig, Indian, Callus

Fig, Infernal, Argemone Fig, Pharoah's, Ficus Fig, Pharoah's, Musa Fig, Marigold, Mesembryanthe-Fig Tree, Cochineal, Cactus Fig-wort, Scrophularia Filberd, Corylus Fingrigo, Pisonia Finochia, Anethum Fir, Pinus Fir Moss, Upright, Lycopodium Frog's Bit, Hydrocharis Fish Thistle, Carduus Flag, or Flag-flower, Iris Flag, Corn, Gladiolus Flag, Sweet-scented, Acorus

Flax, Carolina, Polypremum Flax, Toad, Antirrhinum Fleabane, Conyza Fleabane, Marth, Inula Fleabane, Middle, Inula Fleabane, Shrubby African,

Flax, Linum

Tarchonanthus Fleahane Tree, Turchonantlus Flea-wort, Plantago Flix-weed, Sifymbrium Flower of Brittol, Lychnis

Flower, Gentle, Amaranthus Flower of an Hour, Hibifcus Flower de Luce, Iris Flower-fence of Barbadoes

Poinciana

Fluellin, Antirrhinum Fly Honeysuckle, Lonicera Fly Honeysuckle, African, Hal-

Fly Bane, Silene Fly-wort, Silene Fool's Parsley, Æthusa Fool's Stones, Orchis Fool's Stones, Orchis Gladiole, Water, Butomus Four o'Clock Flower, Mirabilis Gladiole, Water, Lobelia

Fox Glove, Digitalis

Fox Tail Grass, Alopecurus Frankincense Jew's, Styrax Frankincense Tree, Pinus Fraxinella, Dictamnus French Bean, Phaseolus French Honeysuckle, Hedysarum Fresh Water Soldier, Stratioles Fryer's Cowl, Arum Fringe Tree, Chionanthus Fritillary, Fritillaria Fritillary Coxcomb, Stapelia Fuller's Thistle, Dipsacus Fumatory, Fumaria Furze, Ulex Fustic Tree, Morus

Gale, or Sweet Gale, Myrica Galingale, Cyperus Garavances, Cicer Garlick, Allium Garlick Pear, Crateva Gatter Tree, Cornus Gelder Rose, Viburnum Gelder Rose, Currant-leav'd

Spiraa Flowerosconstantinople, Lychnis Gelder Rose, Virginian, Spirace Gentian, Gentiana Gentian, Bastard, Sarothra Gentianella, Gentiana Gentle, Flower, Amaranthus Gerard, Herb, Ægopodium Flower-fence, Bastard, Adenan-Germander, Teucrium Germander, Rock, Veronica Germander, Water, Teucrium Gilead, False Baum of, Draco-

cephalum Gill, Glechoma Gilly-flower, see July-flower Ginger, Amount Ginleng, Panax

Gladwin, Stinking, Iris

Glaf-

Glass-wort, Salsola Glass-wort, Berry-bearing, Anabasis Glass-wort, Jointed, Salicornia Globe Amaranth, Gomphrena Globe Daify, Globularia Globe Flower, Sphæranthus Globe Ranunculus, Trollius Globe Thistle, Echinops Goat's Beard, Tragopogon Goat's Rue, Galega Goat's Stones, greater, Satyrium Gravel-bind, Convolvulus Goat's Stones, lesser, Orchis Goat's Thorn, Astragalus Gold of Pleasure, Myagrum Golden Cups, Ranunculus Golden Lung-wort, Hieracium Golden Maidenhair, Polytrichum Gromwell, German, Stellera Golden Mouse-ear, Hieracium Golden Rod, Solidago Golden Rod Tree, Bosea Golden Samphire, Inula Golden Saxifrage, Chry sofplenium Golden Thistle, Scolymus Goldy Locks, Chrysocoma Goldy Locks, Gnaphalium Good Henry, Chenopodium Gooseberry, Ribes Gooleberry, American, Mela-Gooseberry of the Americans, Gooseberry of Barbadoes, Cactus Gum Tragacanth, Astragalus Goofe-foot, Chenopodium Goose Grass, Galium Goole Grass, great, Asperugo Goose Tongue, Achillea Go to bed at Noon, Tragopogon Hairbells, Hyacinthus Gorss, Ulex Gourd, Cucurbita Gourd, Bitter, Cucumis

Gout wort, Egopodium

Grace, Herb of, Ruta Grain, Oily Purging, Sefamum Grain, Scarlet, Quercus Grain, Scarlet, Cactus Grape, Pitis Grape, Mangrove, Polygonum Grape, Sea-side, Polygonum Grape, Hyacinth, Hyacinthus Grass of Parnassus, Parnassia Grass Vetch, Crimson, Lathyrus Grafs, Wrack, Zostera Greek Valerian, Polemonium Green-weed, Genista Grim the Collier, Hieracium Gromwell, or Gromil, Litho-Spermum Ground Ivy, Glechoma

Ground Nut, Arachis Ground Pine, Teucrium Ground Pine, Stinking, Camphorosma Groundsel, Senecio Groundfel Tree, Baccharis Groundsel Tree with a Ficoides Leaf, Cacalia

Guava, sce Guayava Guava, French, Cassia Guayava, Pfidium Gum Elemi Tree, Pistacia Gum Succory, Chondrilla Gum, Sweet, Liquidamber

Hare's-car, Bupleurum Hare's-ear, Bastard, Phyllis Hare's Lettuce, Sonchus Gourd, Ethiopian, Sour, Adan- Hart's horn Plantain, Plantage Hart's-tongue, Afplenium Gourd Tree, Indian, Crescentia Hart-wort, Seseli

Hart-wort of Crete, Tordylium Hart

Hartwort, Shrubby, of Ethio- Hemlock, Great broad-leaved Bastard, Ligusticum pia Bupleurum Hart-wort of Marseilles, Seseli Hemlock, Lesser, Æthusa Hemlock, Water, Cicuta Hatchet Vetch, True, Coronilla Hatchet Vetch, Clusius's Fo-Hemlock Drop-wort, Oenanthe Hemp, Cannabis reign, Biferrula Hemp, Bastard, Datisca Hawk-weed, Hieracium Hawk-weed, Bastard Crepis Hemp, Bastard, Galeopsis Hawk-weed, Trailingcrooked Hemp Agrimony, Eupatorium feeded, Hyoseris Hemp Agrimony, Bastard, Ageratum Hawk-weed, Woolly, Andryala HempAgrimony, Naked-head-Hawthorn, or Haw, Cratægus Hawthorn, Black American, ed, Verbesina Hemp Agrimony, Water, Bi-Viburnum Hay, Burgundian, Medicago Henbane, Hyoscyamus Hazel, or Hazel Nut, Corylus Henbane, Yellow, Nicotiana Hazel, Witch, Hamamelis Hazel, Witch, Ulmus Henweed, Guinea, Petiveria Heart Pea, Cardiospermum Hepatica, Anemone Heart Seed, Cardiospermum Hep Tree, Roja Heart's Ease, Viola Herb Bane, Orsbanche Heath, Erica Herb Bane, Great Purple, La-Heath, Berry-bearing, Empetrum thrau Heath, Black-berried, Empetrum Herb Bennet, Geum Heath, Mountain, Saxifraga Herb Christopher, Actaca Heath, Low Pine, Coris Herb Gerard, Ægopodium Heath, Peafe, Orobus Herb of Grace, Ruta Hedge, Hog, Medicago Hedge Hog Thittle, Castus Hedge Hog Thorn, Spanish, Anthyllus Herb Mastick, Satureia Herb Paris, Paris Herb Paris of Canada, Trillium Herb Robert, Geranium Hedge Hyssop, Gratiola Herb Trinity, Viola Herb Truelove, Paris Hedge Mustard, Erysimum Hedge Nettle, Galeopsis Herb Truelove of Canada, Tril-HedgeNettle, Shrubby, Prasium Herb Two-pence, Lysimachia Hellebore, *Helleborus* Hellebore, Bastard, Serapias Herb, Bleffed, Geum Hellebore, Black, Helleborus Herb, Saint Bartholomew's, *Ilex* Herb, Willow, Epilobium Herb, Willow, Lythrum Hellebore, Fennel-leaved Black Adonis Herb, Willow, Lijymachia Hellebore, White, Veratrum Hercules's Allheal, Pastinaca Helleborine, Serapias Helmet-flower, Aconitum Hereules's Allheal, Heracleum Hercules's Club, Zantkoxylon Hemlock, Conium

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Hiccory Nut, Juglans High Taper, Verbascum Hind-berry, Rubus Hog Plumb-tree, Spondias Hog's Fennel, Peucedanum Hogweed of the Americans, Boerhaavia Hollow Root, Adoxa Holly, Ilex Holly, Knee, Ruscus Holly, Sea, Eryngium Hollyhock, Alcea Holy Thistle, Cnicus Honesty, Lunaria Hone-wort, Sifon Honey-flower, Melianthus Honey Locust, Gledissia Honeysuckle, Lonicera

Honeysuckle, American Upright, Azalea Honeysuckle, French, bedysarum Jasmine, Jasminum Honeysuckle Grass, Trifolium Honey-wort, Cerinthe Hop, Humulus Hop-tree, Ilex

Horehound, Marrubium Horehound, Base, Stachys Horehound, Bastard Sideritis Horehound, Black, Ballota Horehound, Stinking Marth

Bastard, Glechoma Horehound, Water, Lycopus Hornbeam, Carpinus Horns, Medicago Horse Chestnut, Æsculus Horse Purssane, Trianthema Horsc Radish, Cochlearia Horse shoe Vetch, Hippocrepis Horse-tail, Equisetum Horse-tail, Shrubby, Ephedra Horse-tongue, Rujcus Hottentot Cherry, Cassine Hound's-tongue, Cynoglossum Houseleek, Sempervivum

Houseleek, Lesser, Sedum Houseleek, Small-annual, Till aaHouseleek, Water, of Egypt, PistiaHyacinth, Hyacinthus Hyacinth, African Blueumbellated, Crinum Hyacinth, Lily, Scilla Hyacinth, Peruvian, Scilla Hyacinth, Starry, Scilla Hystop, Hystopus Hyssop, Hedge, Gratiola Hyssop, Mountain, Thymbra

Jacinth, Hyacinthus Jack in a Box, Hernandia Honeysuckle, African Fly, Hal-Jack by the Hedge, Erysimum Jacob's Ladder, Polemonium Jacobæ Lily, Amaryllis Jalap, *Mirabilis* Jasmine, Arabian, Nyctanthes Jasmine, Bastard, Cestrum Jaimine, Bastard, Lycium Jasmine, Ilex-leaved, Lantana Jasminc, Fennel-leaved, Ipomsea Jasmine, Persian, Syringa Jasmine, Red, Plumeria Jasmine, Scarlet, Bignonia Jasmine, Yellow, Bignonia Jericho, Rose, of Anastatica Jersey, Thea, New, Ccanothus Jerusalem Artichoke, Helianthus Jerusalem Cowslip, Pulmonaria Jerusalem Cross, Lychnis Jerusalcm, Oak, Chenopodium Jerusalem Sage, *Phlomis* Jerusalem, Sage of, Pulmonaria Jassamine, see Jasmine Jesuits Bark-tree, True, Cin-Jesuits Bark-tree, False, Iva-

> Tew's Mallow, Corchorus Hathera,

Jew's Frankincense, Styrax

Ilathera, Bark, Clutia ImmortalEagleflower, Impatiens Kidney-wort, Saxifraga Immortal flower, Gomphrena King's Spear, Afphodelus Indian God Tree, Ficus Indian Shot, Canna Indigo, Indigofera Indigo, Bastard, Amorpha Infernal, Fig, Argemone Job's Tears, Coix Johnsonia, Callicarpa Jonquill, Narcissus Ipecacuana, Bastard, Asclepias Ipecacuana, False, Triesteum Iris, Uvaria, *Aletris* Iron-wood, Sideroxylum Iron-wort, Sideritis Judas-tree, Cercis Jujube-tree, Rhamnus July-flower, Clove, Dianthus July-flower, Qucen's, Hesperis July-flower, Stock, Cheiranthus Lady's Beditraw, Galium Juniper, Juniperus Jupiter's Beard, Anthyllis Jupiter's Beard, American, Amorpha Jupiter's Distaff, Salvia Ivy, Hedera Ivy, Bindweed-leaved, Meni-Spermum Ivy, Ground, Glechoma

K

Ivy-tree of America, Kalmia

Kale, Sea, Crambe Kali, Saljola Kali, Egyptian, Mesembryanthe-Lavender, Lavandula Kali, Sal, *Salicernia* Kandel of the Indians, Rhizophera Kelp, Salicornia Kermes, Quercus Kidney Bean, Phaseolus Kidney Bean-tree of Carolina, Laurel, Sea-side, Phyllanthus Glycine

Kidney Vetch, Anthyllis Knapweed, Centaurea Knapweed, Thorny, Centaurea Knawel, Scleranthus Knee Holly, Ruscus Knee Holm, Ruscus Knight's Cross, Lychnis Knot Berries, Rubus Knot Grass, Polygonum KnotGrass, German, Scleranthus Knot Grass, mountain, Illecebrum Knot Grass, Verticillate, Illecebrum

L

Laburnum, Cytisus Ladder to Heaven, Convallaria Ladder, Jacoh's, Polemonium Lady's Bower, Clematis Lady's Comb, Scandex Lady's Cushion, Saxifraga Lady's Finger, Anthyllis Lady's Mantle, Alchemilia Lady's Seal, Tamus Lady's Slipper, Cypripedium Lady' Smock, Cardamine Lady's Traces, Triple, Ophrys Lakeweed, Polygo .um Lamb's Lettuce, Valeriana Larch-tree, Finus Lark's Heel, Delphinium Lark's Spur, Delphinium Laier wort, Laserpitium Lavendor, Sca, Statice Lavender Cotton, Santolina Laurel, Prunus Laurel, Alexandrian, Ruscus Laurel, Dwarf, of America, Kalmia Laurel, Flax-leaved, Daphne

Laurel, Spurge, Daphne

Lauruf-

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Laurustinus, Viburnum Lauskraut, Delphinium Lead-wort, Plumbago Leather-wood, Dirca Leek, Allium Lemon, Citrus Lemon, Water, Paffiflora Lentils, Ervum Lentisk, Pistacia Lentisk, African, Schinus Lentisk, Peruvian, Schinus Leopard's Bane, Doronicum Lettuce, Lastuca Lettuce, Hare's, Sonchus Lettuce, Lamh's, Valeriana Lettuce, Wild, Prenanthes Life, Tree of Thuya Life, Wood of, Guaiacum Life Everlasting, Gnaphalium Lignum, Aloes, Cordia Lignum Vitæ, Guaiacum Lilac, Syringa Lily, Lilium Lily', African Scarlet, Amaryllis Loblolly Bay, Gordonia Lily, Asphodel, Crinum Lily, Atamasco, Amaryllis Lily, Belladona, Amaryllis Lily, St. Bruno's, Hemerocallis Lily, Conval, Convallaria Lily, Day, Hemerocallis Lily, Guernsey, Amaryllis Lily Jacobæa, Amaryllis Lily, Japan, Amaryllis Lily, May, Convallaria Lily, Mexican, Amaryllis Lily, Persian, Fritillaria Lily, Superb, Glorioja Lily, Water, Nymphiea Lily, Lesser Yellow Water, with fringed Flowers, Menyanthes Lords and Ladies, Arum Lily, Zeylon, Amaryllis Lily, Asphodel, Hemorocallis Lily, Daffodil, Amaryllis Styros

Lily, Daffodil, Fancratium

Lily, Hyacinth, Scilla

Lily, Thorn, Catefbaca

Lily of the Valley, Convallaria Lime, Citrus Lime Brook, Veronica Lime-tree, Tilia Linden-tree, Tilia Lion's-foot, Candy, Catananche Lion's-leaf, Leontice Lion's-tail, Leonurus Lipplehout, Cassine Liquorice, Glycyrrhiza Liquorice, Wild, Astrogalus Liquorice, Wild, Copraria Liquorice, Wild, Clycine Liquorice, Vetch, Astragalus Liquorice Vetch, Knobbedrooted, Ghyeine Live-ever, Sedum Live-long, Sedum Liver-wort, Lichen Liver-wort, Marsh, Riccia Liver-wort, Noble, Anemone Lizard's-tail, Saururus Lizard's-tail, Piper Locker Gowlans, Trollius Locust, Melianthus Locust, Ceratonia Locust, Bastard, Hymenæa Locust-tree, Hymenæa Locust-tree, Robinia

Locust-tree, Honey, *Gleditsia* Logwood, Hæmatoxylon London Pride, Saxifraga Loose-strife, Lysimachia Loose-strife, podded, Epilobium Loofe-strife, Purple, Lythrum Loose-strife, Spiked, Lythrum

Loofe-thrife, Yellow Virginian, Gaura

Lotus, or Lote-tree, Celtis Lotus, supposed, of Homer, Dia-

Lotus, Honey, Trifolium Lovage, Ligusticum Love, Tree of, Carcis

Love

Love Apple, Solanum Love in a Mist, Passiflora Love lies a bleeding, Amaranthus Mammee, Sapota, Achras Louie-wort, Pedicularis Loufe-wort, Yellow, Rhinanthus Mandrake, Mandragora Lucern Grass, Medicago Lung-wort, Pulmonaria Lung-wort, Cow's, Verbascum Lung-wort, Golden, Hieracium Mangrove Grape. Polygonum Lupine, Lupinus Lust-wort, *Drosera* Lychnidea, Phlox Lyclinis, Bastard, Phlox Lychnis, Wild, Agrostema

Mace, Reed, Typha Mad Apple, Solanum Madder, Rubia Madder, Little Field, Sherardia Marigold, French, Tagetes Madder, Petty,*Crucianella* Mad-wort, Alyffum Mad-wort, German, Asperugo Mahaleb, Prunus Maho-tree, Hibifeus Maiden-hair, Adiantum Maiden-hair, English black, As-Marjoram, Wild, Origanus *plenium* Maiden-hair, Golden, *Polytri-*Maiden-hair, White, Asplenium Maiden Plum, Chryjobalanus Malabar Nut, Justicia Male Balsam Apple, Momordica Marum, Mallow, Malva Mallow Bastard, Malope Mallow, Jew's, Corchorus Mallow, Indian, Sida Mallow, Indian, Urena Mallow, Marih, Althaa

Mallow, Rose, Alcea Mallow, Syrian, Hibijeus

Mallow, Tree, Lavatera

Mallow, Vervain, Malva

Mallow, Venetian, Lavatera

Mallow, Yellow, Sida Mammee, Mammea Manchineel-tree, Hippomane Mango-tree, Mangifera Mangostan, or Mangosteen, Garcinia Mangrove-tree of America, Rhizophora Manihot, Jatropha Maple, Acer Maracock, Passificra Marigold, Calendula Marigold, African, Tagetes Marigold, Corn, Chryfanthemum Marigold, Fig, Mejembryanthe-Marigold, Marsh, Caltha Marjoram, common, or iweet, Origanum

Marjoram, Bastard, Origanum Marjoram, Pot, Origani m Marjoram, Spanish, Urtica Marjoram, Winter sweet, Origanum Marsh-Mallow, see Mallow

Martagon, Lihum Marvel of Peru, Mirabilis Marum, Common, Satureia Pennyroyal-Icented, Meliffa Marum, Syrian or Cretan, Ori-

ganum Master-wort, Imperatoria Master-wort, Black, Astrantia Mastick, Herb, Satureia Mastich, Indlan, Schinus Mastich, Peruvian, Sekinis Mastich-tree, Pistackia

Mallow, Variedleav'd, Lavatera Mastich-tree, Indian, Schinus Mastich Thyme, Satureia Mastich Thyme, Tymus

Matfellon, Centaurea Millet, Panicum Mat-weed, Hooded, Lygeum Maudlin, Achillea May Apple, Podophyllum May Bush, Cratægus May Lily, Convallaria May Weed, Anthemis Mays, Zea Meadia, Dodecatheon Meadow Rue, Thalistrum Meadow Saffron, Colchicum Meadow Saxifrage, Peucedanum Mock Privet, Phillyrea Meadow-sweet, Spiræa Meadow-sweet, Greater, Spiraca Meadow, Queen of the, Spiraa Molucca Baum, Moluccella Mealy-tree, Pliant, Viburnum Medic, Medicago Medic, Baitard, Medicago Medic, Sea, Medicago Medic, Vetch, Hedyfarum Medic, Vetchling, Hedyfarum Medlar, *Mespilus* Medusa's Head, Euphorbia Melancholy Thistle, Carduus Melancholy-tree, Nystanthes Melilot, Trifolium Melilot Trefoil, Trifolium Melon, Cucumis Melon, Water, Cucurbita Melon-Thiftle, Castus Mercury, Mercurialis Mercury, English, Chenopodium Moth Mullein, Verbascum Mezereon, Daphne Meu, Athamanta Mignonette, Reseda Milfoil, Achillea Milfoil, Water, Hottonia Milfoil, Water, Miriophyllum Milfoil, Water, Utricularia Wilk Vetch, Astragalus Milk Vetch, Bastard, Phaca Milk Wood, Bignonia Milk-wort, Polygala Milk-wort, Euphorbia Milk-wort, Sea, Glaux

Millet-grass, Milium Millet, Indian, Holcus Milt-waste, Asplenium Mint, Mentha Mint, Cat, Nepeta Milletoe, Viscum Mithridate Mustard, Thlaspi Mithridate Multard, Bastard, Iberis Mock Orange, Philadelphus Moldavian Baum, Dracocephalum Moly with Lily-flowers, or Homer's, Allium Money-wort, Lysimachia Monk's-head, Leontod:on Monk's-hood, Aconitum Monk's Rhubarb, Rumex Monster, Fritillaria Moon Seed, Menispermum Moon Trefoil, Medicago Moon-wort, Lunaria Moor Berries, Vaccinium Moschatel, Tuberose, Adoxa Moss-tree, Lichen Moss, Upright Fir, Lycopodium Moss, Water, Fontinalis Moss-berries, Vaccinium Mother of Thyme, Thymus Mother-wort, Leonurus Mouse-ear, Hieracium Mouse-ear, Creeping, Hieracium Mouse-ear, Golden, Hieracium Mouse-earchickweed, Cerastium Mouse-earScorpion-grass, Myo-Mouse-tail, Myosurus Mug-wort, Artemisia Mulberry-tree, Morus Mulberry Blite, Blitum Mule Fairchild's, Dianthus MuleMule-wort, Hemionitis Mule's Fern, Hemionitis Mullein, Verbascum Mullein, Moth, Verbascum Mushrooms, Agaricus Mushrooms, Cup, Peziza Musk Seed, Hibiscus Mustard, Sinapis Mustard, Bastard, Cleome Mustard, Buckler, Biscutella Mustard, Hedge, Erysimum Mustard, Mithridate, Thlaspi Mustard, Bastard Mithridate, Iberis

Mustard, Tower, Turritis Mustard, Bastard Tower, Arabis Nut, Cashew, Anacardium Mustard, Treacle, Clypeola Mustard Treacle, Thlaspi Myrtle, Myrtus Myrtle, Candleberry, Myrica Myrtle, Dutch, Myrica

Naked Ladies, Colchicum Naples, Star of, Ornithogalum Narcissus, Third, of Matthiolus, Pancratium Naseberry-tree, Sloanca Navel-wort, Cotyledon Navel-wort, Bailard, Craffula Navel-wort, False, Crassula Navel-wort, Venus's, Cynogloffum Nut, Walnut, Juglans Navel-wort, Water, Hydrocotyle Navew, Braffica Nectarine, Anygdalus Nep, Nepeta Nettle, Urtica Nettle, Dead, Lamium Nettle, Hedge, Galeopfis Nottle, Shrubby Hedge, Prasium Oats, Avena Nettle-tree, Celtis Nickar-tree, Guilandina Nightshade, Solanum Nightshade, American, Phyto- Oil Nut, Ricinus Lacca

Nightshade, American, Rivina Nightshade, Bastard, *Rivina* Nightshade, Deadly, Atropa Nightshade, enchanter's, Circæa Nightshade, Malabar, Basella Nightshade, Three-leaved, Trillium Nipple-wort, Lapfana Noli me tangere, Impatiens Noli me tangere, Momordica None so pretty, Saxifraga Nonfuch, *Lychnis* Nose-bleed, Achillea Nut-tree, Corylus Nut Bladder, *Staphylæa* Nut, Chocolate, Theobroma Nut, Cob, Corylus Nut, Cocoa, Cocos Nut, Earth, Bunium Nut, Faufel, Areca Nut, Ground, Arachis Nut, Hazel, Corplus Nut, Malabar, Justicia Nut, Pease Earth, Lathyrus Nut, Physic, Jatrof ha Nut, Physic, Criton Nut, Pig, Busium Nut, Pistacia, Pistacia Nut, Purging, Cotron Nut, Purging, Jatropha Nut, Spanish, *Iris*

Oak, Quercus Oak, Dwarf, Teucrium Oak of Cappadocia, Ambresia Oak of Jerusalem, Chenopodium Oak, Poison, Rhus Oats, Seafide of Carolina, Uniola Oats, Wild-bearded, Bromus Oat-grass, Bromus Oil Seed, Ricinus

Z 4

Oil-tree, Ricinus Oily Purging Grain, Sefamum Okra, Hibiscus Old Man's Beard, Clematis Old Man's Head, Dianthus Oleander, Nerium Oleaster, Elæagnus Olive, Olea Olive, Spurge, Daphne Olive, Wild, Elæagnus Olive, Wild, of Barbadoes, One Berry, Paris One Blade, Convallaria Onion, Allium Onion, Sea, Scilla Orange, Citrus Orange, Mock, Philadelphus Origany, Origanism Oroonoka, Nicotiana Orpine, Sedum Orpine, Bastard, Adrachne Orpine, Lesser, Crassula Orpine, True, of Imperatus, Telephium Orrach, Atriplex Orrach, Berry-bearing, Blitum Park-leaves, Hypericum Orrach, Creeping-Ihrubby, Atraphaxis Orrach, Wild, Chenopodium Ofier, Salix Ofmund Royal, Ofmunda Ox-eye, Buphthalmum Ox-eye Daify, Chryfanthemum Ox-lips, Primula Ox-tongue, Picris Ofwego Tea, Monarda

Paony, Paonia Pagils or Paigles, Primula Painted Ladies, Dianthus Painted Lady Peafe, Lathyrus

Palm, Common or Greater, or Date-tree, Phænix Palm, Lesser or Dwarf, Chamærops Palm, The Cocoa Nut, Cocos Palm, The Faufel Nut, Areca Palm, Malabar, called Ampana and Carimpana, Borassus Palm, Wild Malabar, called Katou Indel, Elate Palm, Mountain, with largest Leaves, cailed Codda Panna, Corypha Palm with ringed Stems, called Todda Panna, Cycas Palmwith bipinnate Leaves called Schunda Panna, Caryota Palma Christi, Ricinus Palmetto, Chamærops Panic, Panicum Panic-grafs, Panicum Pansies, Viola Papaw-tree, Carica Papaw-tree of North America, Annona Paraguay Tea, Ilex Parsley, Apium Parsley, Bastard, Caucalis Parsley, Corn, Sison Parsley, Fool's, Æthusa Parsley, Macedonian, Bubon Parsley, Milky, Selinum Ox eye of old Authors, Anthemis Parsley, Mountain, Athamanta-Parsley, Stone, Bubon Parsley, Bastard Stone, Sison Parsley, Wild, Sison Parsley, Wild, of America, Cardiospermum Parsley, Break-stone, Aphanes Parsley Piert, Aphanes Parinep, Pastinaca Parinep, Cow's, Heracleum Parfnep, Prickly, Echinophora Parsnep, Water, Sium

Par-

Parnassus, Grass of, Parnassia Pasque-flower, Anemone Passion-slower, Passifiora Patience, Rumex Paul's Betony, Veronica Pea, Pifum Pea, Chich, Cicer Pea, Chichling, Lathyrus Pea, Earth-nut, Lathyrus Pea, Everlasting, Lathyrus Pea, Heart, Cardiospermum Pea, Heath, Orobus Pea, Painted Lady, Lathyrus Pea, Pigeon, Cytifus Pea, Sweet-scented, Lathyrus Pca, Tangier, Lathyrus Pea, Winged, Lotus Pea, Wild Winged, Pifum Pea, Wood, Orobus Peach, Amygdalus Peach, Wolf's, Solanum Pear, Pyrus Pear, Avocado, Avocato, or Alligator, Laurus Pear, Baichelor's, Solanum Pear, Garlick, Crateva Pear, Prickly, Castus Pellitory, Parietaria Pellitory, Bastard, Achillea Pellitory, Double, Achillea Pellitory of Spain, Authemis Pellitory of Spain, Falle, Chry-Pigeon, Pea, Cytifus Janthemum Pellitory-tree, Zanthoxylum Penny-royal, Mentha

Pellitory of the Wall, Parietaria Pile-wort, Ranunculus Penny-royal, Virginian, Saturcia Pimpernel, Anagallis Penny-wort, Marsh, Hydrocotyle Pimpernel, Water, Veronica Penny-wort, Wall, Conyledon Penny-wort, Water, Hydrocotyle Penguin, Bromelia Pentstemon, Chelone Peony, see Paony Pepper, Piper Pepper, Barbary, Capficum

Pepper, Bell, Capficum Pepper, Bird, Capsicum Pepper, Bonnet, Capficum Pepper, Guinea, Capsicum Pepper, Jamaica, Myrtus Pepper, Indian, Capsicum Pepper, Long, Piper Pepper, Poor Man's, Lepidium Pepper, Wall, Sedum Pepper, Water, Polygonum Pepper-grass, Pilularia Pepper-pot, Capficum Pepper-tree, Vitis Pepper-wort, Lepidium Percepier, Aphanes Periwinkle, Vinca Perficaria, Pelygonum Persimon Plum, see Pishamin Pestilent-wort, Tussilago Petroseline Wortle, Apium Petty Madder, Crucianella Petty Whin, Ononis Pharaoh's Fig, Muja Pharaoh's Fig, Ficus Pheasant's Eye, Adonis Phyllyrea False, Rhamnus Phu, Valeriana Physic, Nut, Jatropha Physic, Nut, Croton Physic, Pork, Phytolacca Pick-tooth, Daucus Pig Nut, Bunium Pig Nut, Juglans Pimento, Myrtus . Pimpernel, Round-Icaved Water, Samelus Pimpernel, Yellow, of the Woods, Lysimachia Pimpillo, Cactus Pinaster, Pinus Pine-tree, Pinus

Pine,

Pine, Ground, Teucrium Plowman's Spikenard, Conyzæ Pine, Stinking Ground, Camphorosma Pine, Heath low, Coris Pine-apple, Bromelia Pine-apple, Wild, Bromelia Pine-apple, Wild, Renealmia Pink, Dianthus Pink, Indian, Ipomoea Pink, Indian, Lonicera Pink, Sea, Statice Plum, Pithamin, Perfimon, or Pinpillow, fee Pimpillo Pipe-tree, Syringa Pipe-tree, Pudding Cassia Piperidge Bush, Berberis Pippen, Pyrus Piquets, Dianthus Pishamin Plum, Diospyros Pis-a-bed, Leontodon Pistacia Nut, Pistacia Pistacia-tree, Black Virginian, Poison Tree, Rhus Hamamelis Pistacia, Hazel-leaved, Hama-Pitch-tree, Pinus Pitchumon-plum, see Pishumin Polypody, Polypodium Plaintain-tree, see Plantain Plane-tree, Platanus Plane-tree, False, Acer Plant, Burningthorny, Euphorbia Pond-weed, Triple-headed, Plant, Egg, Solanum Plant, Humble, Mimofa Plant, Sensitive, Mimosa

nomene Plantain, Plantago Plantain, Buck's-horn, Plantago Poppy, Spatling Cucubalus Plantain, Hartshorn Plantago Plantain, Water, Alisma Plantain, Least Water, Limosella Potatoe, Indian, Dioscorea Plantain, Star-headed Water, Potatoe, Spanish, Convolvulus Alisma

Plantain Shot, Canna Plantain-tree, Musa Pliant Mealy-tree, Viburnum

Plum-tree, Prunus Plum, American Black, Chryse-Plum, Bay, Psidium Plum, Brasilian, Spondias

Plum, Cocoa, Chrysobalanus Plum, Hog, Spondias Plum, Indian Date, Diospyres Plum, Maiden, *Chrysobalanus*

Pitchumon, Diospyros Poccoon, see Puccoon Pockwood, Guaiacum Poet's Cassia, Osyris Poet's Rosemary, Osyris Poison Ash, Rhus

Poison-berry, Cestrum Poison-bush, Euphorbia Poison Oak, Rhus. Poison Wood, Rhus Poke, Virginian, Phytolacca

Poley Mountain, Teucrium Poley-grais, Lythrum Pomegranate, Punica Pompion, Cucurbita Pond-weed, Potamogiton

Zannichellia

Poor Man's Pepper, Lepidium Poplar, Populus Plant, Bastard sensitive, Æschy-Poppy, Papaver

Poppy, Horned, Chelidonium Poppy, Prickly, Argemone Pork, Physic, Phytolacca

Potatoe, Solanum Prick Madam, Sedum Prick Wood, Euonymus

Primrose, Primula Primrose, Night, Oenothera Plowman's Spikenard, Baccharis Primrose, Peerless, Narcissus

 $Prim_{\pi}$

Primrose-tree, Oenothera Princes Feather, Amaranthus Privet, $Ligu \beta r/m$ Privet Evergreen, Rhamnus Privet, Mock, Phillyrea Paccoon, Sanguinar.a Pudding-grass, Mentha Pudding-Pipe-tree Cassia Pumpion, fee Pompton Pumpkin, fee Pompion Purging Grain, Oily, Sefamum Rasburry, Rubus Purging Nut, Croton Purging Nut, Jatropha Purging Thorn, Rhammus Purple Apple, Annona Pursiane, Portulaca Pursiane Horse, Trianthema Puille ne, Sea, Atriplex Purflanc, Water, Poplis Purssane, Tree Sca, Atriplex

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Quamoclit, Ipomæa
Queen of the Meadows, Spiræa
Queen's July-flower, Hefperis
Quick, Cratægus
Quicken, Sorbus
Quickbeam-tree, Sorbus
Quince-tree, Pyrus

Reed, Burr, Sparga

R

Radish, Raphanus
Radish, Horse, Cochlearia
Radish, Water, Sisymbrium
Ragged Robin, Lychnis
Ragwort, Common, Senecio
Ragwort, African, Othonna
Ragworts, Sundry, of old Au-Rocket, Bastard, Resedathors, Senecio
Ragworts, Sundry, of old Au-Rocket, Marsh, Sisymbrium thors, Solidago
Rampions, Horned, Phyteuma
Radish, Raphanus
Rochert, Herb, Geranium
Roch Germander, Veronica
Rock Rose, Cissus
Rocket, Bastard, Reseda
Rocket, Corn, Bunias
Rocket, Sea, Bunias
Rocket, Sea, Bunias
Rocket Square-codded,
Montpelier, Bunias

Rampions, Common Esculent, Campanula Rampions with scabious Heads, Jasione. Ramsons, Allium Ranunculus, Globe, Trollius Rape, Brassica Rape, Broom, Orobanche Rape, Cole, Braffia R. pe of Ciftus, Ajerum Rattle, Pedicularis Rattle, Yellow, Rhinarthus Rattle Inake Root, Senegaw, Polygala Rattlesnake Root, Dr. Witts, Prenanthes Rattlesnake Weed, Eryngium Redbud, Cercis Red Whorts, Spanish, Arbuius Reddish, see Radish Reed, Arundo Reed, Burr, Sparganium Reed, Indian-flowering, Canna Rennet, Cheese, Galium Rest Harrow, Onenus Rhamnus, Bastard, Hitpophas Rhubarb, Rheum Rhubarb, Monks, Rumex Rib-wort, Plantago Rice, Oryza Ricinus, Bastard, Croton Roane-tree, Sorbius Robert, Herb, Geranium Rocambole, Allium Roch Germander, Vero iica Rock Rose, Cistus Rocket, Braffica Rocket, Corn, Bunias Rocket, Sea, Bunias Rocket Square-codded, of Montpelier, Bunias Rock at.

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Rocket, Water, Sifymbrium Rue, Dog's, Scrophularia Rocket, Winter, Sisymbrium Rue, Goat's, Galega Rocket or Dame's, Violet, Rue, Meadow, Thalistrum Hesperis Rue, Wall, Asplenium Rod, Aaron's, Solidago Rue, Wild Syrian, Peganum Rod, Golden, Solidago Rupture-wort, Herniaria Rod-tree, Golden, Bosea Rupture-wort, Least, Linum Rod, Shepherd's, Dipfacus Rush, Juncus Root, Indian Arrow, Maranta Rush, Flowering, Butomus Rush, Lesser flowering, Scheuch-Root, China, Smilax Root, False China, Senecio zeria Root, Fever, Triosteum Rush, Round, black-headed Root, Hollow, Adoxa Marsh or Bog, Schoenus Root, Rose, Rhodiola Rush, Sweet, Acorus Root, Snake, Aristolichia Rush-grass, Scirpus Root, Snake, black or Wild of Ruyschiana, Dracocephalm America, Actaa Rye, Secale Root, Dr. Witts's Rattlefnake, Rye, Wild, Hordeum Prenanthes Rye-grass, Hordeum Root, Senegaw Rattlefnake, Polygala S Root, Sweet, Glycirrhiza Role, Roja Saffron, Crocus Rose, China, Hibiscus Saffron, Bastard, Carthamus Rose, Christmas, Helleborus Saffron, Meadow, Colchicum Role, Corn, Papawer Sage, Salvia Rose, Gelder, Viburnum Sage, Wild, Teucrium Rose, Gelderland, Viburnum Sage, Indian Wild, Lantana Rose, Virginian Gelder, Spiraa Sage, Wood, Teucrium Rose, Martinico, Hibiscus Sage of Jerusalem, Pulmonaria Rose, Rock, Cistus Sage of Jerusalem, Phlomis Rose of Jericho, Anastatica Sage-tree, Phlomis Rose Bay, Nerium Saint Bartholomew's Herb, *Ilex* Rofe Bay Dwarf, Rhododendron Saint Bruno's Lily, Hemerocallis Rose Bay, Mountain, Rhododen- Saint John's Bread, Ceratonia Saint John's-wort, Hypericum Rose Bay Willowherb, Epilobium Saint Peter's-wort, Asyrum Rose Mallow, Alcea Saint Peter's-wort, Hypericum Saint Peter's-wort, Shrubby, Rose Root, Rhediela Rosemary, Rosmarinus Lonicera Rosemary, Poet's, Offris Saintfoin, Hedyfarum Rosemary, Wild, Ledum Sallad, Corn, Val. Rosemary, Lesser wild, Anaro-Salkali, Salicornia Sallad, Corn, Valeriana meda Sallow, Salix Ruo, Ruta Salfafy Tragopogon Salt-

Salt-wort, Salicornia Salt-wort, Black, Glaux Samphire, Crithmum Samphire, Golden, Inula Sandbox-tree, Hura Sanders, fee Saunders Sanicle, Sanicula Sanicle, Saxifraga

Sanicle, American Bastard, Mi-Sea Weed, Fucus tella

Sanicle, Bear's-ear, Cortufa Sappodillo-tree, Sloanea Sapota, Achras Sapota Mammee, Achras

Saracen's Confound, Solidago Saracen's Confound, The true, Senna, Bastard, Cossia

Saracen's Wound-wort, Solidago Senna, Jointed-podded Saracen's Wound-wort, The

true, Senecio Sassafras-tree, Laurus Sassafy, see Salsafy Sattin-flower, Lunaria Sattin, White, Lunaria Sauce alone, Eryfimum Savin, Juniperus Savin-tree, Indian, Bauhinia

Saunders, Santalum Savory, Satureia Savoys, Braffica Saw-wort, Serratula Saxifrage, Saxifraga

Saxifrage, Burnet, Pimpinella Saxifrage, golden, Chryjofplenium

Scabious, Scabiosa

Scabious, Sheep's, Jasune Scallion, Allium

Scammony, Syrian, Convolvulus Setter-wort, Helleborus Scammony of Montpell r, Cy- Shaddock, Citrus

nanchum

Sciatica Cress, The true, Lepi-Shave-grass, Equisetum

Sciatica Cress, Iberis Scorching Fennel, Thapfia Scorpion-grafs, Scorpiurus Scorpion-grass, Mouse-ear, Myofotis

Scorpion Senna, Coronilla Scorpion's, Thorn, Ulex Screw-tree, see Skrew-tree Scull-cap, see Skull-cap Scurvy-grass, Cochlearia

Sehesten, Cordia

Sedum Pyramidal, Saxifraga Seed, Heart, Cardiospermum

Self-heal, Brunella Self-heal, Sanicula

Senna of the Shops, Casia

Senna, Bastard, Celutea

Bladder, Coronilla Senna, Scorpion, Coronilla

Senna, Wild, Caffia Senegaw Rattleinake Root, Po-

irgata

Sengreen, Semtervivum Sensitive Plant, Mimofa Sensitive Plant, Bastard, Eschy-

nomere

Septfoil, Tormentilla Sermountain, Laserpitium SerpentCucumber, Trichofanthes Sepent's Tongue, Ophioglossum Service-tree, Sorbus

Service, Maple-leaved, Cratæ-

Saxifrage, Meadow, Peucedanum Service, Wild, Cratagus Setfoil, sce Septfoil Setwall, see Zedoary Setwall, Garden, *Faleriana*

> Shallot, see Eschalot Sheep Scabious, Jasio 10

Shepherd's Needle, Scandia Shepherd's Pouch, Thlospe

Shepherd's

Shepherd's Rod, Dipfacus Shepherd's Staff, Dipfacus Shot, Indian, Canna Shot, Plantain, Canna Sickle-wort, Coronilla Side saddle Flower, Sarracena Silk Cotton-tree, Bombax Silk, Virginian, Periploca Silver Bush, Anthyllis Silver-tree, Protea Silver-weed, Potentilla Simpla Nobla, Phyllis Simpler's Joy, Verbena Skirret, Sium Skull-cap, Scutellaria Skrew-tree, Helisteres Sloe-tree, Prunus Smallage, Apium Snails, Medicago Snail Clover, Medicago Snail Trefoil, Medicago Snakeweed, Polygonum Snake Root, Aristolochia Snake, Root, Black or Wild of Sparrow-wort, Pafferina

America, Actaa Snap-tree, Justicia Snap Dragon, Antirrhinum Snap DragonofAmerica, Ruellia Speerage, see Asparagus Sneeze-wort, Achillea Sneeze-wort, Austrian, Xeran-Speedwell, Female, Antirrhinum

themum Snowball-tree, Viburnum Snowberry-bush, Lonicera Snowdrop, Galanthus Snowdrop, Greater, Leucojum Snowdrop-tree, Chionanthus Soap Apple, Sapindus Soap Berry, Sapindus Soap-wort, Saponaria Soldanc!, Soldanella Soldanel of the Shops, Convol-Soldier, Water, Stratiotes

Soldier, Fresh Water, Stratiotes Soldier's Cullions, Orchis Solomon's Seal, Convallaria Solomon's Seal, Penfylvanian, Uvularia

Sorgo, Holcus Sorrel, Rumex

Sorrel, Indian Red, Hibiscus Sorrel, Indian White, Hibiscus Sorrel, Wood, Oxalis Sorrel-tree, Andromeda

Sorrowful-tree, Nystanthes Sour Gourd, Æthiopian, Adan-

Sonia Sour Soap, Annona Southernwood, Artemisia South-fea Tea, *Ilex* Sow bread, Cyclamen Sow Thistle, Sonchus Sow Thistle, Prenanthes Sow Thistle, Downy, Andryala

Sow Thistle, Tangier, Scorzonera Sparrow-grass, see Alparagus

Sparrow-wort,Targus's,Stellera Spatling Poppy, Cucubalus Spear-wort, Ranunculus Speedwell, Veronica

Spice Wood, Laurus Spice, All, Myrtus Spider-wort, Anthericum Spider-wort, Great Savoy, Hemerccallis

Spider-wort, Virginian, Tradef-

Spignel, Athamanta Spignel, Wild, Sefeli Spike-grass, Winged, Stipa Spikenard, Indian, or True * Spikenard, BastardFrench, Nardus

Spike-

Spikenard, Celtic, Valeriana Spikenard, False, Lavandula Spikenard, Plowman's, Baccharis

Spikenard, Plowman's, Conyza Staves Acre, Delphinium Spikenard, Wild, Afarum Spinach, Spinacia Spinach, Strawberry, Blitum

Spindle-tree, Euonymus Spindletree, Climbing, Celastrus Stock, Dwarf Annual, Hesperis Spindle-tree, Bastard, Kiggellaria Stock, Virginian, Hesperis Spindle-tree, Bastard, Celastrus Stone, Crop, Sedum

Spiræa Frutex, Spiræa Spiræa, African, Diofma

Spleen-wort, Afplenium Spleen-wort, Rough, Lonchitis Storax-Liquid, Liquidambar Spleen-wort, Rough, Polypodium Strawberry, Fragaria

Spoon-wort, Cochlearia Spunge, Spongia Spunge-tree, Mimofa Spurge, Euphorbia Spurge, Bastard, Euphorbia Spurge Laurel, Daphne

Spurge Olive, Daphne Spurrey, Spergula Squash, Cucurbita

Staff-tree, Celastrus Staff, Shepherd's, Dipfacus Stag's-horn-tree, Rhus

Star of Alexandria, Ornithoga-

Star Apple, Chrysophyllum Star of Bethlehem, Ornithoga-

Star of Constantinople, Ornithogalum

Star Hyacinth, Scilla Star of Naples, Ornithogalum Star Thistle, Centaurea Star-wort, Aster Star-wort, Ballard, Buphthal-

MIUM

Star-wort, Traling, of Vera Cruz, Tridax

Star-wort, Yellow, Inula Star-wort, Yellow, Buphthalmum

Stich-wort, Stellaria Stink-horns, Phallus Stock, Cheiranthus

Stock July-flower, Cheiranthus

Stone-Crop-tree, Chenopedium

Sone Parsley, Bubon

Spirting Cucumber, Momordica Stone Parsley, Bastard, Sison

Storax-tree, Styrax

Strawberry, Barren, Potentilla Strawberry, Barren, Fragaria Strawberry, Blite, Bitum Strawberry Spinach, Blitum

Strawberry-tree, Arbutus Succory, Cichorium

Succory, Gum, Chondrilla Succory, Wart, Lapfana Sugar Cane, Saccharum Sulphur-wort, Peucedanum

Squill, Scilla Sulphur-wort, Peucedanu Squill, Lesser White, Pancratium Sultan-slower, Centaurea

Sumach, Rhus

Sumach, Myrtle-leaved, Coriaria Sumach, Tanner's or Currier's

Corraria Sundew, Drojera Sun-flower, Helianth us

Sun-flower, Baftard, Helenium Sun-flower, Dwarf, Rudbeckia Sun-flower, Dwarf, Tetragono-

theca

Sun-flower, Little, Ciftus Sun-flower, Tickfeeded, Corcopfis Sun-flower, Willow-leaved, He-

lenium

Superb Lily, Gloriosa Swallow-wort, Ajclepias

Sweet, Briar, Rosa Sweet Cicely, Scandix Sweet Gum, Liquidambar Sweet John, Dianthus Sweet Root, Glycyrrhiza Sweet Sop, Annona Sweet Sultan, Centaurea Sweet Weed, Capraria Sweet William, Dianthus Sweet William of Barbadoes, Ipomæa Swine's Cress, Cochlearia Sycamore, Ficus Sycamore, False, Acer

ladelphus

Tacamahaca, Populus Tallow-tree, Croton Tamarind-tree, Tamarindus Tamarisk, Tamarix Tansey, Tanacetum Tansey, Wild, Potentilla Tare, Vicia Taragon, Artemisia Tarton-raire, Daphne Tea-tree, Thea Tea, False, Ilex Tea, New Jersey, Ceanothus Tea, Olwego, Monarda Tea, Paraguay, Ilex Tea, South-fea, Ilex Teasel, Dipsacus Tent-wort, Asplenium Thistle, Carduns Thistle, Blessed, Cnicus Thistle, Carline, Carlina Thistle, Distast, Atractylus Thistle, Distast, Carthamus Thistle, Fish, Carduus

Thistle, Fuller's, Dipsacus Thistle, Gentle, Carduus Thistle, Globe, Echinops Thistle, Golden, Scolymus Thistle, Hedge-hog, Cactus Thistle, Holy, Cnicus Thistle, Ladies, Carduus Thistle, Melancholy, Carduus Thistle, Melon, Castus Thistle, Milk, Carduus Thiftle, Soft, Carduus Thiftle, Sow, Sonchus Thistle, Sow, Prenanthes Thistle, Downy Sow, Andryala Syringa, commonly called, Phi-Thittle, Star, Centaurea Thistle, Torch, Castus Thistle, Woolly, Onopordon Thorn, Black, Prunus Thorn-Box, Lycium Thorn, Christ's, Rhamnus Thorn, Egyptian, Mimoja Thorn, Evergreen, Me/pilus Thorn, Goat's, Astragalus Thorn, Lily, Catesbæa Thorn, Purging, Rhamnus Thorn, Scorpion's, Ulex Thorn, Spanish Hedge-hog, Anthyllis Thorn, White, Cratægus Thorn, Apple, Datura Thorny Plant, Burning, Euphor-Thorough Wax, Buplearum Three Faces under a Hood, Viola Three-leav'd Grass, Trifolium Thrift, Statice Throat-wort, Campanula Throat-wort, Blue umbelliferous, Trachelium Thyme, Thymus Thyme, Dodder of, Cuscuta Thyme, Mastick, Saturcia Tickseed, Corispermum Tills,

Tills, Ervum Tinker's Weed, Doctor, Triosteum Tulip, Chequer'd, Fritillaria Toad Flax, Antirrhinum Tobacco, Nicotiana Tolu-tree, Balsam of, Toluifera Tulip-tree, Laurel-leaved, Magnolia Tomatoes, Solanum Tooth-ach-tree, Zanthoxylum Tooth-pick, Daucus Tooth-wort, Dentaria Tooth-wort, Plumbago Torch Thistle, Castus Turbith, Garganic, Thapfia Tormentil, Tormentilla, Touch me not, Impatiens Touch me not, Momordica Tower Mustard, Turritis Tower Mustard, Bastard, Arabis Turnep, Brassica Tragacanth, Gum, Astragalus Tragus's Sparrow-wort, Stellera Turmerick, Curcuma Traveller's Joy, Clematis Treacle Mustard, Clypeola Treacle Mustard, Thlaspi Tree Moss, Lichen Trefoil, Trifolium Trefoil, Bean, Cytisus

Trefoil, Stinking Bean, Anagyris Trefoil, Bird's-foot, Lotus Trefoil, Marsh, Menyanthes Trefoil, Moon, Medicago

Trefoil, Shrub, Ptelea Trefoil of Montpelier, Shrub, Vanilla, or Vaneloe, Epidenarum Lotus

Trefoil, Snail, Medicago Trefoil, Thorny, of Candia,

Fagonia Trefoil Tree, Cytifus Trefoil, Base-tree, Cytisus Trinity-herb, Viola Triple Ladies Traces, Ophrys True-love, Paris True-love of Canada, Trillium

Trumpet-flower, Bignonia Tuberose, Polyanthes

Tutip, Tulipa

Tulip, African, Hæmanthus Tulip-flower, Bignonia

Tulip-tree, Liriodendrum

Tun Hoof, Glechoma Tupelo-tree, Nyssa

Turbith, Arabian or True * Turbith Indian, or of the

Shops, Convolvulus

Turk's Cap, Lilium Turk's Head, Cactus Turk's Turban, Ranunculus

Turnep, French, Brassica

Turnsole, Heliotropium Turpentine-tree, Pistacia Tutian, Hypericum

Twopence, Herb, .: simachia Tway Blade, Ophrys

Twy Blade, Ophrys

Valerian, Valeriana

Valerian, Greek, Polemonium

Venus's Comb, Scandix

Venus's Looking-glass, Campanula

Venus's Navel-wort, Cynoglof-

Vervain, Verbena

Vervain Mallow, *Malva*

Vetch, Vicia

Vetch, Ax, see Hatchet Vetch

Vetch, Bitter, *Erwum* Vetch, Bitter, Orobus

Vetch, Jointed Podded Bitter, Ervum

* Unknown.

Vetch, Chichling, Lathyrus Vetch Crimson Grass, Lathyrus Wanhom, Kæmpseria Vetch, Hatchet, Coronilla Vetch, Clusius's foreign Hat-Wart-wort, Euphorbia chet, Biserrula Vetch, Horse-shoe, Hippocrepis Vetch, Kidney, Anthyllis Vetch, Liquorice, Astragalus. Vetch, Knobbed-rooted Liquo-Wayfaring-tree, Viburnum rice, Glycine Vetch, Milk, Astragalus Vetch, Bastard Milk, Phaca Vetch, Venetian, Orobus Vetch, Medic, Hedyfarum Vetchling, Hedysarum Vetchling, Medic, Hedysarum Vetchling, Yellow, Lathyrus Viburnum, American, Lantana Whin, Petty, Ononis Vine, Vitis Vine, Black, Tamus Vine, Climbing five-leaved, of White Sattin, Lunaria Canada, Hedera Vine, Spanish Arbor, Ipomoea Vine, White, Bryonia Violet, Viola Violet, Bulbous, Galanthus Violet, Calathian, *Gentiana* Violet, Dame's, Hesperis Violet, Dog's Tooth, Erythronium Whorts, Bog, Vaccinium Violet, Queen's, Hesperis Violet, Water, Hottonia Viper's Bugloss, Echium Viper's Grass, Scorzonera Virgin's Bower, Clematis Vitæ, Arhor, Thuya Vitæ, Lignum, Guaiacum

Wake Robin, Arum Wall-flower, Cheiranthus Walnut, Juglans Walnut, Jamaica, Hura

Umbrella-tree, Magnolia

Wall-wort, Sambucus Wart Succory, Lapfana Wart-wort, Heliotropium Wart-wort, Lapsana Water-leaf, Hydrophylluni Water Soldier, Stratiotes Weld, Reseda Wheat, Triticum Wheat, Buck, Polygonum Wheat, Cow, Mylampyrum Wheat, French, Polygonum Wheat, Indian, Zea Wheat, Turkey, Zea Whin, Ulex White Beam-tree, Cratagus White Leaf-tree, Cratagus White, Wood, Bignonia Whitlow Grass, Draba Whitlow Grass, Rue-leaved, Saxifraga Whortle Berry, *Vaccinium* Whortle Berry, African, Royena Whorts, Black, Vaccinium Whorts, Red, Vaccinium Whorts, Spanish Red, Arbutus Wicken-tree, Scrbus Widow Wail, Cneorum Willow, Salix Willow French, Epilobium Willow, Spiked, of Theophraf. tus, Spiræa Willow, Sweet, Myrica Willow, Herb, Etilobium Willow, Herb, Lythrum Willow, Herb, Lysimachia Willow Herb, Rosebay, Epilo-

Wind-flower, Anenome

Wind-

Wind Seed. Arctotis Winged Spiked Grass, Stipa Winter Berry, Prinos Winter Bloom, Azalea Winter Cherry, Physalis Winter Cherry, Solanum Winter Green, Pyrola Winter Green, Ivy-flowering,

Kalmia Winter Green, with Chickweed

Flowers, Trientalis Winter's Bark, Laurus Witch Hazel, Hamamelis Witch Hazel, Ulmus Woad, Isatis

Woad, Wild, Reseda Wolf's Bane, Aconitum Yapon, Ilex Wolf's Bane, Winter, Helleborus Yarrow, Achillea Wolf's Peach, Solanum Woodbind, Lonicera Woodbind, Spanish, Ipomoea Wood of Life, Guaiacum

Wood Anemone, Anemone Wood Sorrel, Oxalis Woodroof, Asperula Woodwaxen, Genista Worm-Grass, Spigelia

Worm-seed, Chenopodium Worm-wood, Artemisia Wormwood, Wild, Parthenium Wortle, Petroseline, Apium Would, Reseda Wound-wortofAchilles, Achillea Wound-wort, Clown's, Stachy, Wound-wort, Saracen's, Solidago Wound-wort, Saracen's, the

true, Senecio Wrack, Fucus Wrack, Grass, Zostera

Yams, Dioscorea Yellow Weed, Reseda Yerva Mora, Bosea Yew-tree, Taxus

Z

Zedoary, round, Kæmpferia Zedoary, long, Amomum Zerumbith, Amomune

PLATE I.

PARTS OF THE FLOWER.

- Fig. 1. A Flower with its Corolla, Pistillum, and Stamina (page 1, 2) a, the Petals of the Corolla (p. 5) b, the Germen; c, the Style; d, the Stigma; (p. 12) e, the Filaments,; f, the Antheræ (p. 11)
- Fig. 2. The Calyx, Pistillum and Stamina, separate from the Corolla (p. 2) a, the Perianthium (p. 3) b, the Germen; c, the Style; d, the Stigma (p. 12) e, the Filaments; f, the Anthera bursting and discharging the Pollen; g, an Anthera before it has burst (p.11.)
- Fig. 3. A Flower whose Corolla is monopetalous: a, the Corolla (p. 5) b, the Perianthium (p. 3)
- Fig. 4. A polypetalous Corolla: a, the Ungues: b, the Laminæ (p. 8)
- Fig. 5. A Narcissus issuing from its Spatha: a, the Flower b, the Spatha (p. 4)
- Fig. 6. An Amentum (p. 4)
- Fig. 7. The Fructification of a Moss; a, the Calyptra (p. 4)
- Fig. 8: A Fungus: a, the Volva (p. 4)
- Fig. 9. A Grass: e, the Gluma; b. the Arista (p. 4)
- Fig. 10. A Compound Umbel: a, the Universal Umbel; b, the Umbellulæ, or partial Umbels (p. 18) c, the Universal Involucrum; d, the partial Involucra (p. 3)
- Fig. 11. A Bractea accompanying the Flowers of the Tilia: a, the Bractæa (p. 4)
- Fig. 12. a, the Pollen seen with a Microscope (p. 11) b, an elastic Vapour discharged from it (p. 13)

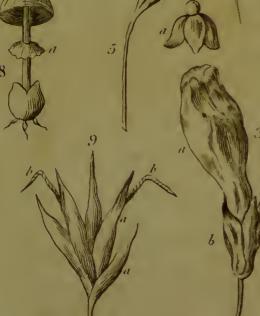






PLATE II.

PARTS OF THE FRUIT.

Fig. 1. A Capsule: a, the Valvules (p. 14)

Fig. 2. a, A Receptacle of Seeds (p. 17)

Fig. 3. A Strobilus (p. 15)

Fig. 4. A winged Seed: a, the Seed; b, the Wing (p. 16)

Fig. 5. A Legumen: α, the upper Suture, along which runs the Receptacle of the Seeds (p. 15)

Fig. 6. A Siliqua: a, b, the two Sutures to which the Seeds are fastened alternately (p. 14)

Fig. 7. A feed crowned with a Pappus: a, the Seed; b, the Stipes of the Pappus (p. 16) c, a hairy Pappus; d, a Feathery Pappus (p. 44)

Fig. 8. The Seed of a Bean split in two: a, the Cotyledons; b, the Corculum; c, the Rostellum; d. the Plumula; e, the Hilum (p. 16)

Fig. 9. A Drupa: a, the Nucleus, or Stone; b, the Pulp (p. 15)

Fig. 10. A Pomum: a, the Capfule; b, the Pulp (p. 15)

Fig. 11. A Berry: a, the Seeds; b, the Pulp (p. 15)

Fig. 12. A Seed crowned with a Calyculus: a, the Seed; b, the Calyculus (p. 16.44)

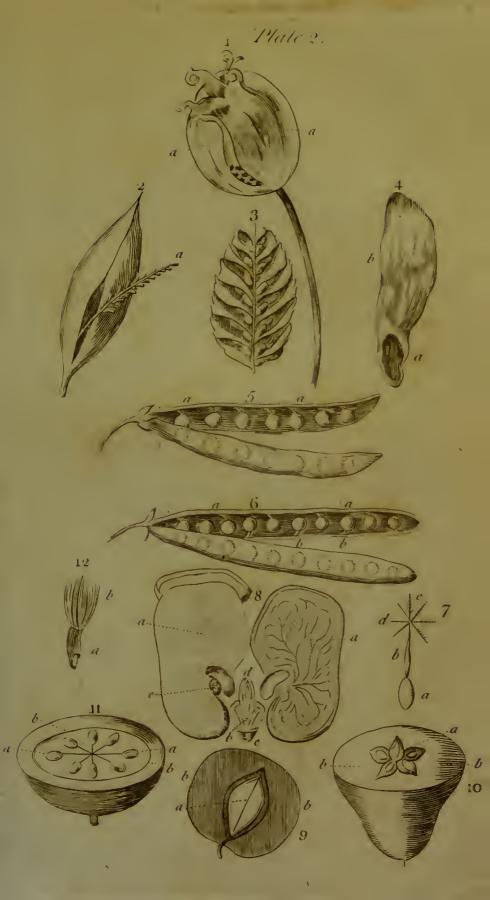




PLATE III.

CLASSES.

FIG. CLASS.

1. Monandria (p. 78, 90)

2 IVI Diandria (p. 78, 91)

3 Triandria (p. 78, 92)

4 Tetrandria (p. 78, 94)

5 Pentandria (p. 78, 96)

6 Hexandria (p. 78, 100)

7 Heptandria (p. 78, 102)

8 Octandria (p. 78, 103)

9 Enneandria (p. 78, 104)

10 Decandria (p. 78, 105)

11 Dodecandria (p. 79, 107)

12 Icosandria (p. 80, 108)

13 Polyandria (p. 80, 110)

14 Didynamia (p. 80, 112)

15 Tetradynamia (p. 81, 117)

16 Monadelphia (p. 81, 120)

17 Diadelphia (p. 82, 123)

18 Polyadelphia (p. 82, 130)

19 Syngenesia (p. 82, 131)

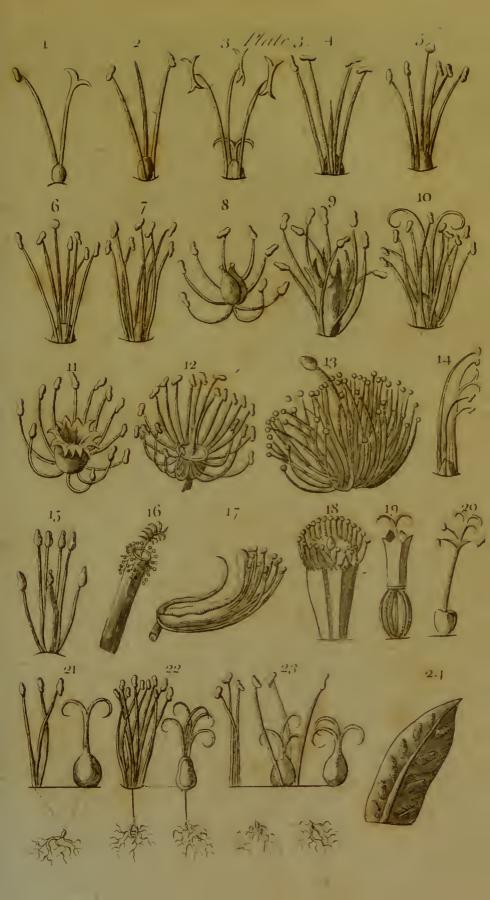
20 Gynandria (p. 83, 138)

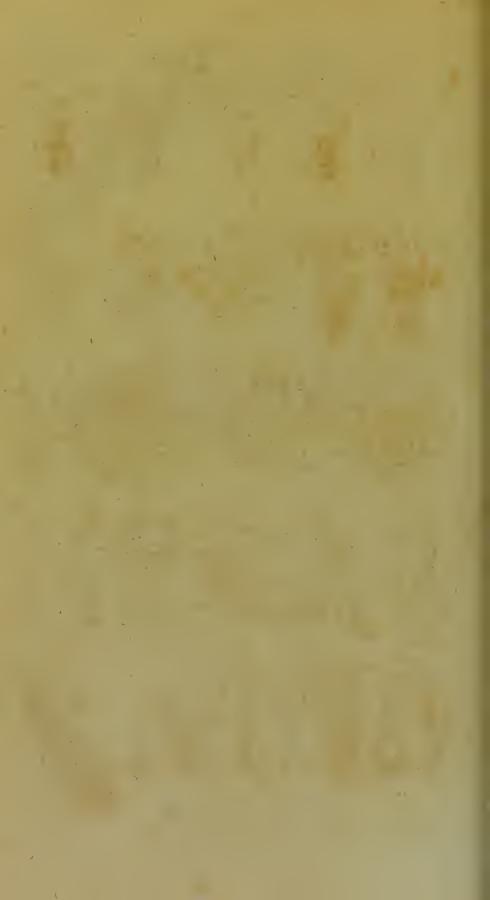
21 Monoecia (p. 83, 141)

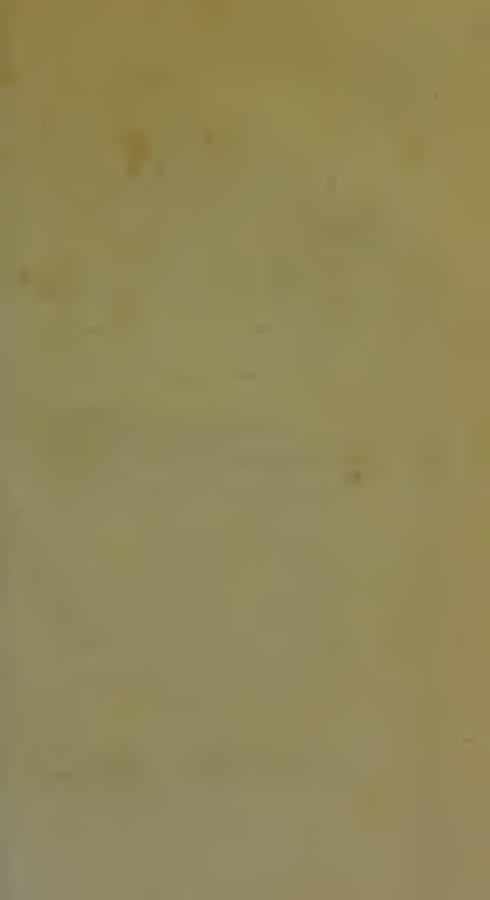
22 Dioecia (p. 83, 144)

23 Polygamia (p. 84, 147)

24 Cryptogamia (p. 84, 150)







PLATEIV

ROOTS.

Fig. 1. A Squamose Bulb (p. 214)

Fig. 2 A folid Bulb (p. 214)

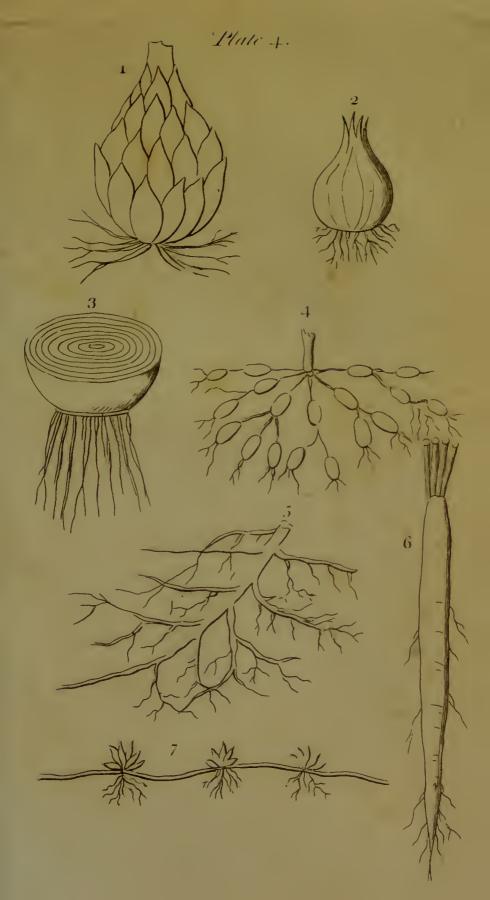
Fig. 3. Transverse Section of a Tunicate Bulb (p. 214.)

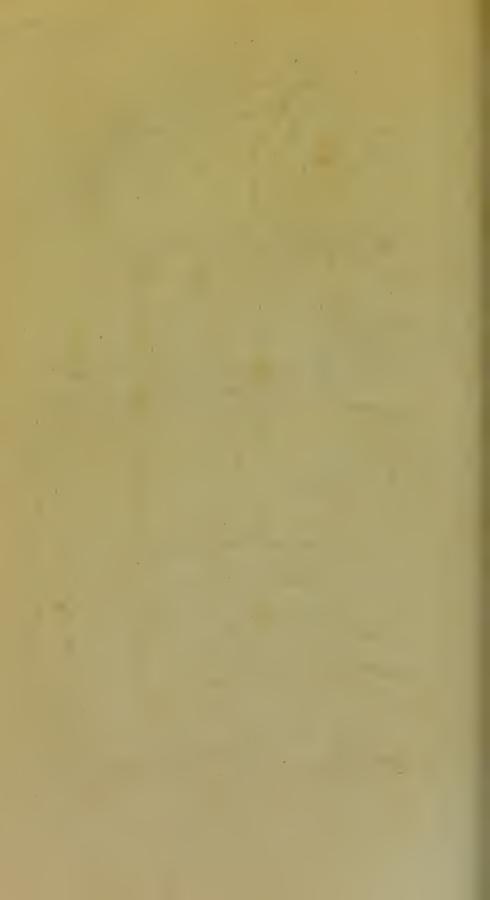
Fig. 4. A pendulous Tuberose Root of the Filipendula (p. 214)

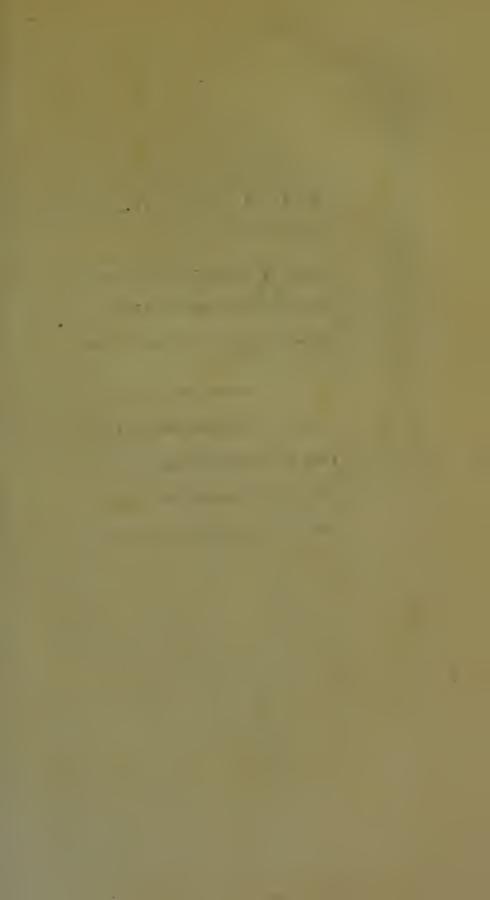
Fig. 5. A Ramose Root (p. 178)

Fig. 6. A Fusiform Root (p. 178)

Fig. 7. A Repent Root (p. 178)







PLATEV

TRUNK.

Fig. 1. A Squamofe Culm (p. 184)

Fig. 2. A Repent Stem (p. 181)

Fig. 3. A Frons (p. 187) fee also the Note at p. 67.

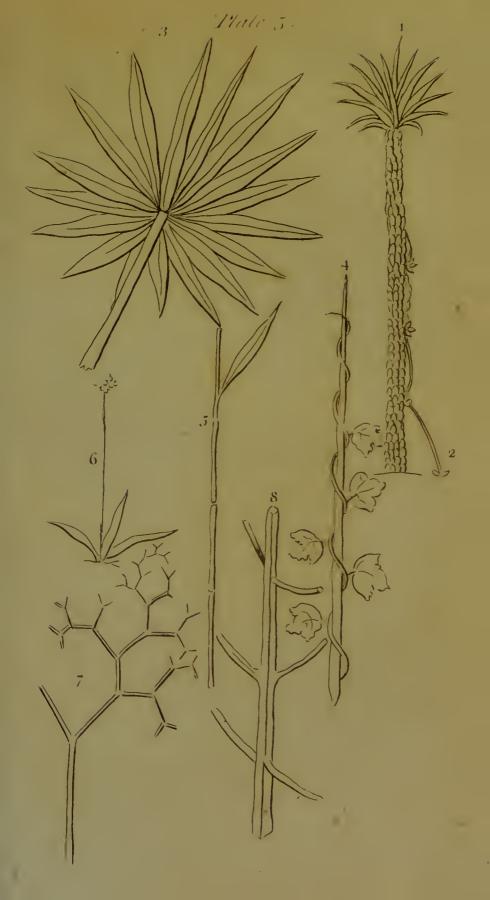
Fig. 4. A Volubile Stem (p. 180)

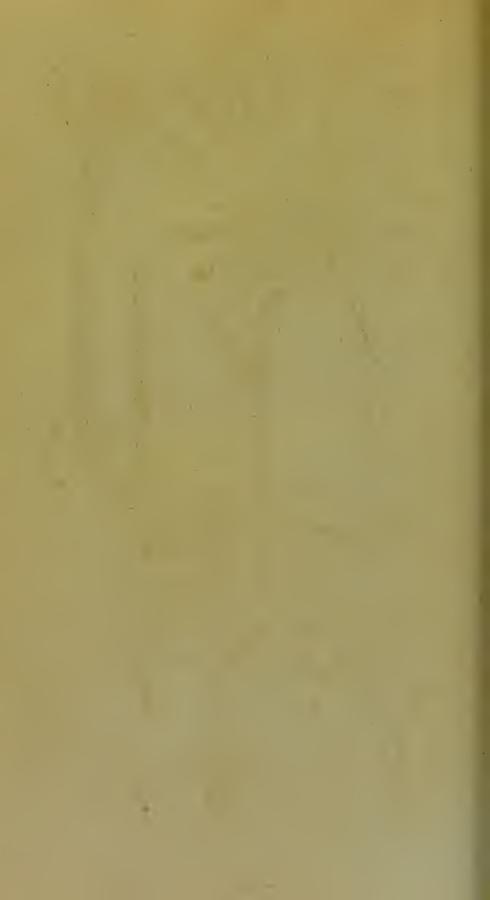
Fig. 5. An Articulate Culm (p. 183)

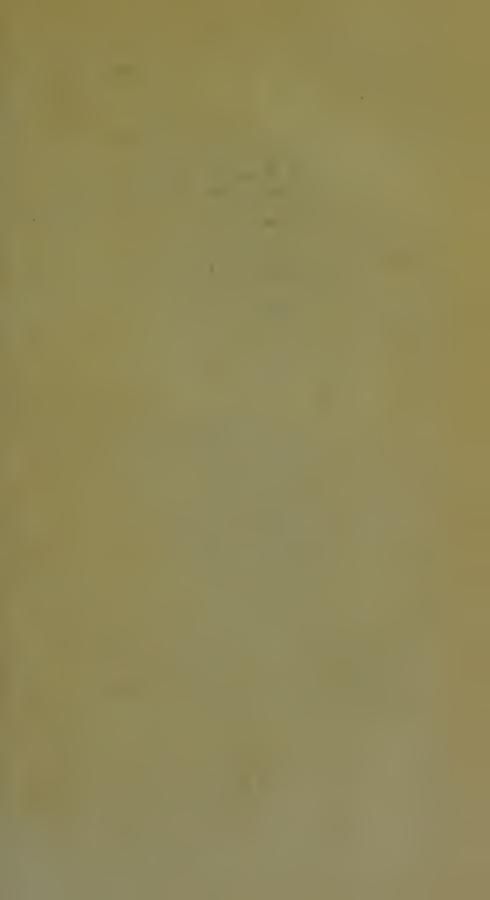
Fig. 6. A Scapus (p. 184)

Fig. 7 A Dichotomus Stem (p. 183)

Fig. 8. A Brachiate Stem (p. 182)







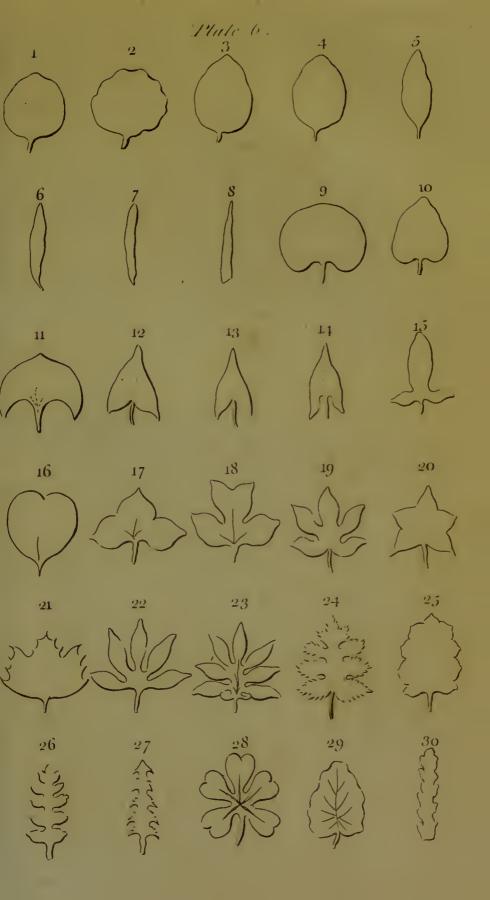
P L A T E VI. LEAVES.

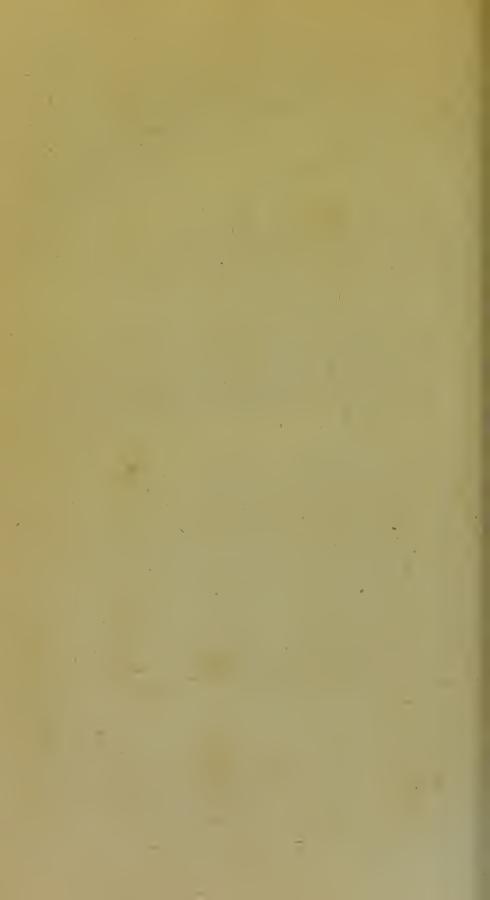
SIMPLE LEAVES.

Fig Rbiculate (p. 188) Subrotund (p. 188) 3 Ovate (p. 188) 4 Oval (p. 188) 5 Oblong (p. 189) 6 Lanceolate (p. 189) 7 Linear (p. 190) 8 Subulate (p. 190) 9 Reniform (p. 190) 10 Cordate (p. 191) 11 Lunulate (p. 191) 12 Triangular (p. 190) 13 Saggittate (p. 191) 14 Cordato-sagittate * 15 Hastate (p. 191) 16 Fissa (p. 191) 17 Trilobe (p. 192) 18 Præmorfe (p. 193) 19 Lobate (p. 192) 20 Quinquangular (p. 190) 21 Erose (p. 195) 22 Palmate (p. 192) 23 Pinnatifid (p. 192) 24 Laciniate (p. 192) 25 Sinuate (p. 192) 26 Dentato-finuate + 27 Retrorfum-finuate ‡ 28 Partite (p. 192) 29 Repand (p. 194) 30 Dentate (p. 194)

- * Partaking of both Heart and Arrow-shape.
- + Partaking of the indented and the hollowed.
- 1 Hollowed backwards.

The explanation of these Terms were omitted in the Chapter of Simple Leaves.







P L A T E VII. LEAVES.

SIMPLE LEAVES Continued.

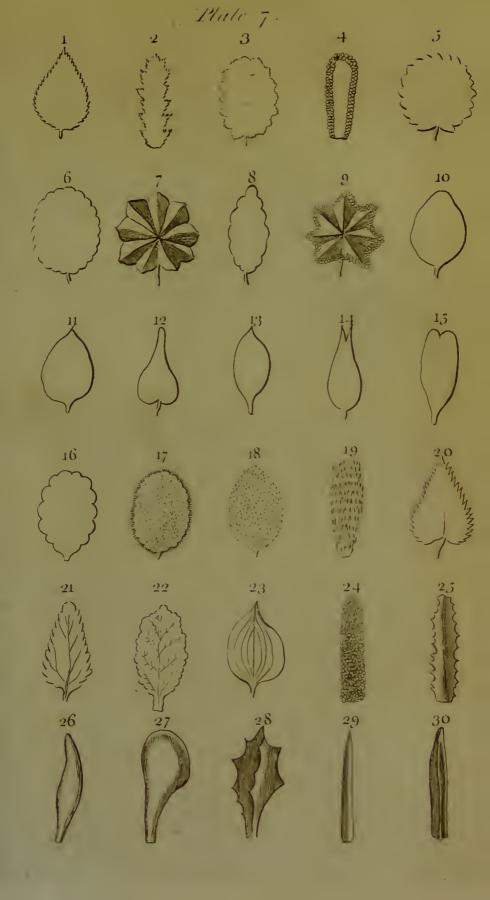
FIG. 1 CErrate (p. 194) 2 Duplicato-serrate (p. 194) 3 Duplicato-crenate (p. 194) 4 Cartilagineous (p. 195) 5 Acutely-crenate (p. 194) 6 Obtusely-crenate (p. 194) 7 Plicate (p. 197) 8 Crenate (p. 194) 9 Crisp (p. 197) 10 Obtuse (p. 193) 11 Acute (p. 193) 32 Acuminate (p. 193) 13 Obtuse with an Acumen 7 14 Acutely-emarginate + 15 Cuneiform-emarginate || 16 Retuse (p. 193) 17 Pilose (p. 196) 18 Tomentose (p. 196) 19 Hispid (p. 196) 20 Ciliate (p. 193) 21 Rugose (p. 197) 22 Venose (p. 197) 23 Nervose (p. 198) 24 Papillose (p. 196) 25 Linguiform (p. 199) 26 Acinaciform (p. 199) 27 Dolabriform (p. 199) 28 Deltoid (p. 190) 29 Triquetrous (p. 200)

30 Canaliculate (p. 199)

^{*} Blunt with a point.

⁺ Sharply Nicked.

 [₩] Wedge-shaped and nicked. The explanation of these
 Terms were omitted in the Chapter of Simple Leaves.



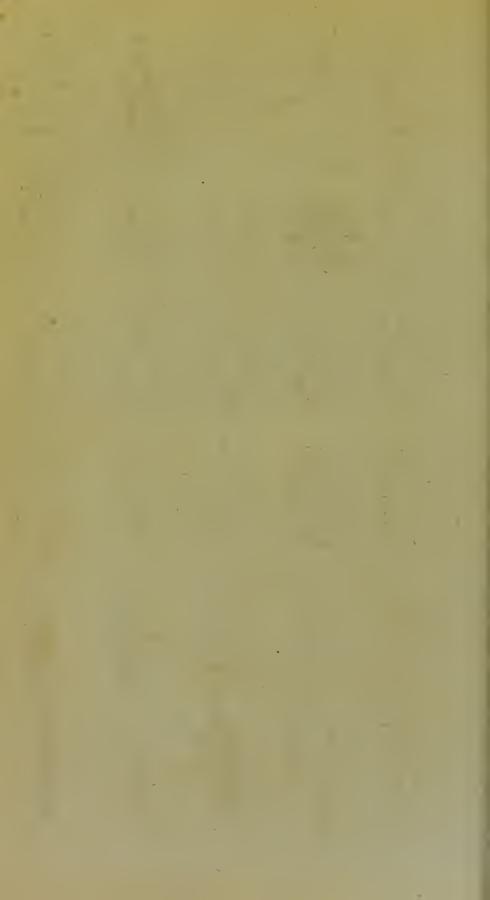


PLATE VIII. LEAVES.

SIMPLE LEAVES Continued.

Fig.

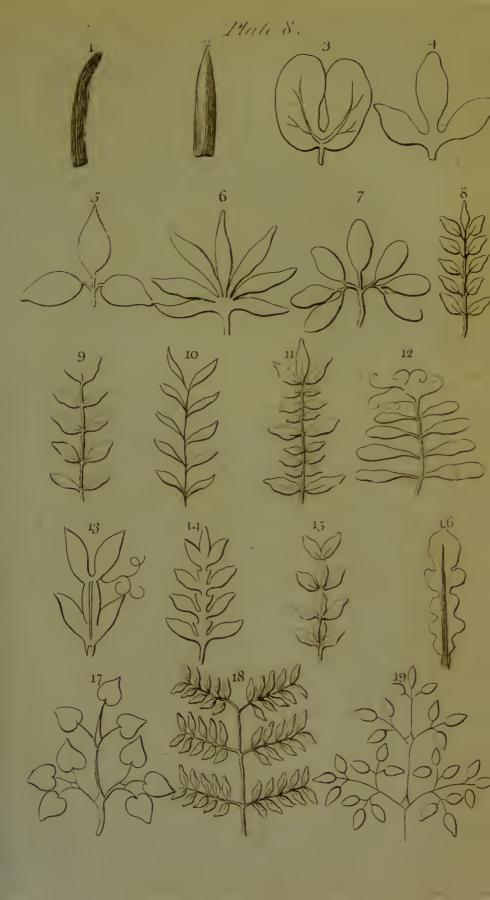
1 Sulcate (p. 200)
2 Teretes (p. 198)

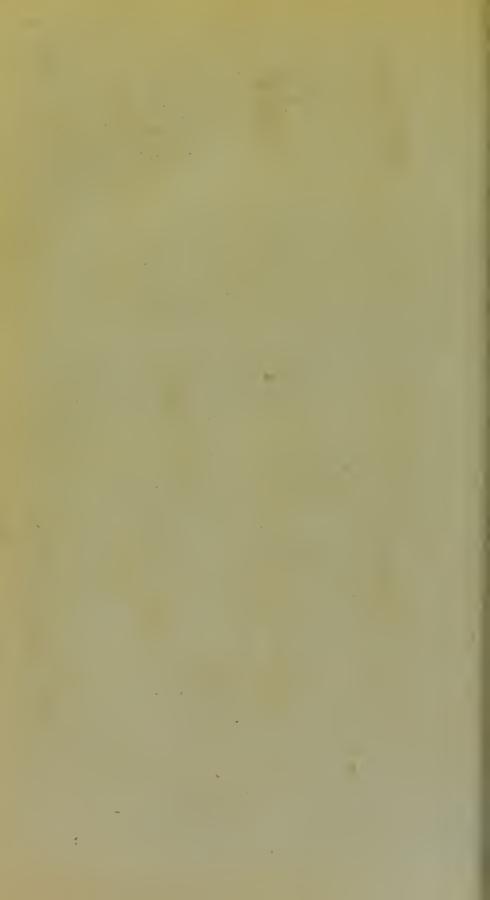
COMPOUND LEAVES.

Digitate)

```
3 Binate
4 Ternate, with the Folioles fessile
5 Ternate, with the Folioles petiolate
6 Digitate
7 Pedate (p. 202)
8 Pinnate with an odd one (p. 201)
9 — abrupt (p. 201)
10 — alternately (p. 201)
11 — interruptedly (p. 201)
12 — cirrhose (p. 201)
13 — conjugate (p. 202)
14 — decursively (p. 201)
15 — articulately (p. 201)
16 Lyrate * (p. 192)
17 Biternate (p. 202)
18 Bipinnate (p. 202)
19 Triternate (p. 202)
```

This belongs to the Simple Leaves.





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100

PLATE IX. LEAVES.

COMPOUND LEAVES Continued.

Fig. 1. Ripinnate abrupt (p. 202)
Fig. 2. with an odd one (p. 201)

DETERMINATE LEAVES.

Fig. 3. a, Inflex (p. 206) b, Erect (p. 206) c, Patent (p. 206) d, Horizontal (p. 206) e, Reclined (p. 206) f, Revolute (p. 206) Fig. 4. a, Seminal (p. 203) b, Cauline (p. 203) c, Rameous (p. 203) d, Floral * (p. 203) Fig. 5. a, Peltate (p. 205) b, Petiolate (p. 205) c, Sessile (p. 205) d, Decurrent (p. 205) e, Amplexicaul (p. 205) f, Perfoliate (p. 206) g, Connate (p. 205) b, Vaginant (p. 205) Fig. 6. a, Articulate + (p. 201) b, Stellate (p. 204) c, Quatern (p. 204) d, Opposite ‡ (p. 204) e, Alternate (p. 204) f, Acerose § (p. 190) g, Imbricate (p. 204) b, Fasciculate (p. 201) Fig. 7. Parobolic || (p. 189) Fig. 8. Spatulate (p. 189)

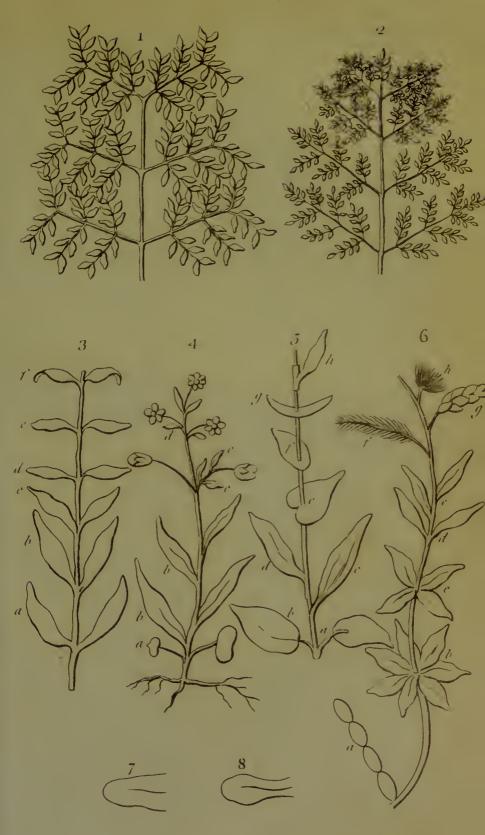
^{*} This must be distinguished from the Bractex, or floral Leaf in Plate I. Fig. 11.

⁺ This is a compound Leaf.

[†] The Definition in the Page cited, confines this Term to Leaves in Pairs that crofs each other; but by this Figure, taken from LINNEUS, it appears to be applicable also to Leaves in Pairs that are not so circumstanced.

[§] The Definition of this has been given amongst the simple Leaves, though it stands more properly here.

Il This and Fig. 8. are simple Leaves omitted in their Place.



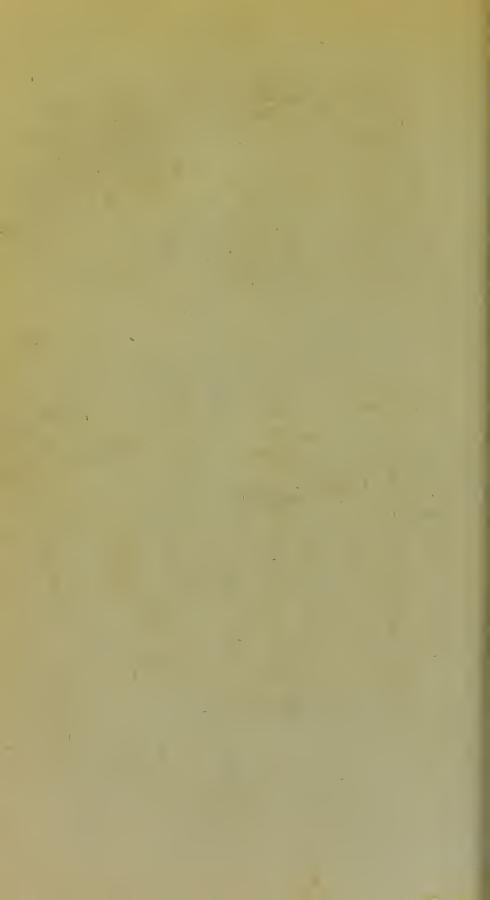


PLATE X.

FULCRA.

Fig. 1. a, A Cirrhus (p. 208)

b, Stipulæ (p. 207, 217)

e, Concave Glandules (p. 208, 230)

Fig. z. a, Pedicellate * Glandules (p. 208, 230)

Fig. 3. a, Bracteæ differing from the Leaves (p. 208) b, The Leaves.

Fig. 4. a, Simple Spines (p. 208, 229)

b, A Triple Spine.

Fig. 5. a, Simple Aculei (p. 208, 229)

b, Triple Aculei, or Forks (p. 229)

Fig. 6. a, Opposite Leaves (p. 204) †

6, The Axillæ (p. 184, 233)

* Such as are born on Pedicells, or little Footstalks.

† See the Note on Plate IX. Fig. 6. d.





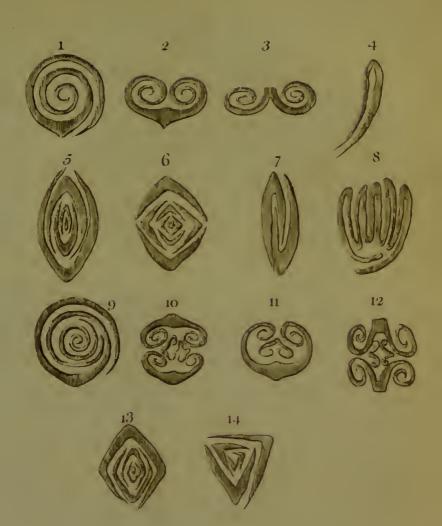
PLATE XI.

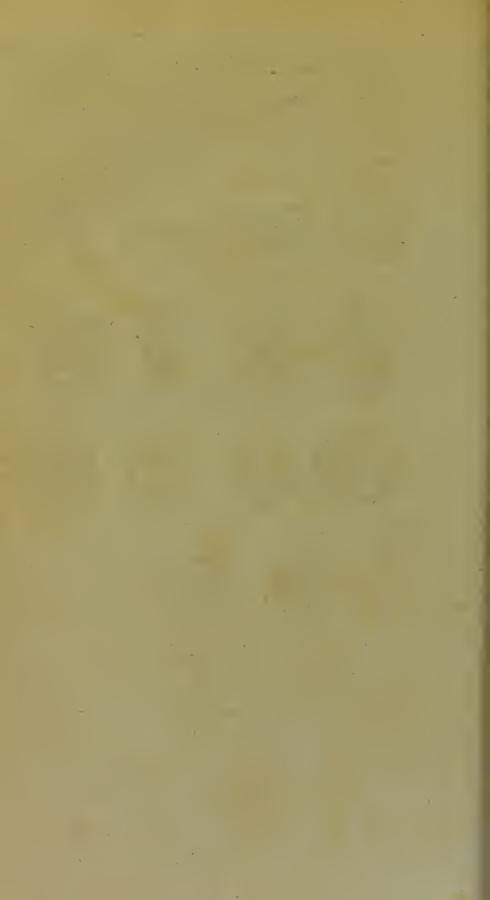
FOLIATION.



^{*} More than one Leaf convolute. Fig. 1. is a fingle Convolution.
† Equitant with two prominent Angles. See the Difference in Fig. 5, which has not those Angles.

I Equitant three Ways, so as to form a Triangle.







P L A T E XII.

MISCELLANEOUS,

Fig. 1. A Corymbus (p. 186)

Fig. 2. An Arillus exemplified in the Fruit of the Euonymus: a, the Valvules of the Capfule; b, a Seed; c, the Arillus opened to discover the Seed (p. 61, 51)

Fig. 3. A Verticillus (p. 186)

Fig. 4. a, The Horned Nectaria in Aconitum; b, two Pe-

duncles or Styles that support them (p. 8)

Fig. 5. A paleaceous Receptacle of a compound Flower shewn in Rudbeckia; a, the Paleæ that part the Florets of the Disk; b, the tubulose Florets of the Disk; c, the ligulate Corollulæ of the Radius; d, a ligulate Corollula fallen off (53,54, 132)

Fig. 6. A Spatha; b, a Spadix (p. 3, 18)

Fig. 7. A Racemus (p. 186)

Fig. 8. A tubulose Floret of a compound Flower (p. 53, 133)

Fig. 9. A monopetalous hypocrateriform Corolla: a, the

Tube; b; the Limb (p. 7)
Fig. 10. A Nectarium that crowns the Corolla shewn in the Cup of a Narcissus; a, the Cup or Nectarium (p. 32)

Fig 11. A Spike (p. 185)

Fig. 12. A calycine Nectarium shewn in the Flower of a

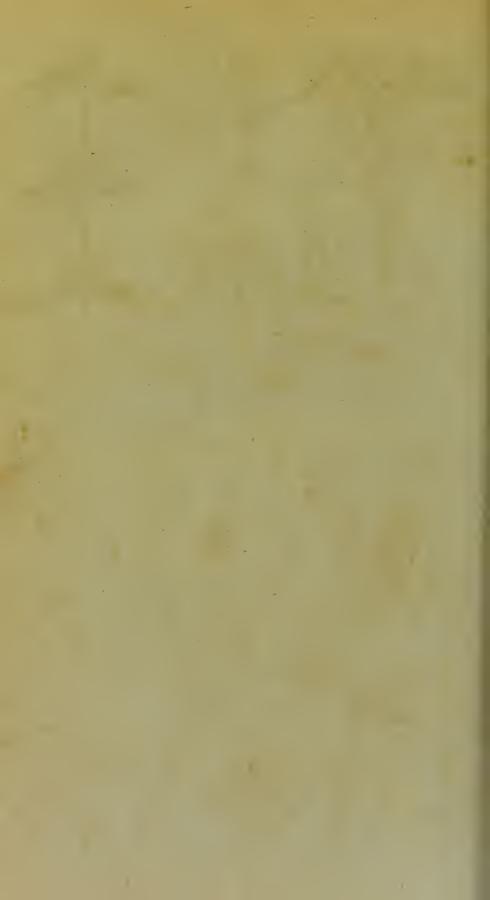
Tropæolum; a, the Nectarium (p. 32)

Fig. 13. A Nectarium of Singular Construction shewn in a Flower of the Parnassia; a, five heart-shaped Nectaria terminated by Styles or Threads, each of which is crowned with a little Ball (p. 32)

Fig. 14. A Cyma of the Laurustinus (p. 18)

Fig. 15. A Panicle (p. 186)





AN

EXPLANATION

OF

BOTANIC TERMS,

According to the Sexual System of LINNAUS.

Of various Kinds of Roots, the Trunk, Branches, Leaves, and Fructification, in their natural Order.

R A D I X the R O O T*,

An Organ by which a Plant receives its Nourishment.

DURATION.

I A NNUA, annual, that dies in one Year.

2 Perennis, biennial, that dies in the Space of two Years.
3 Perennis, perennial, that regerminates several Years successively.

FIGURE.

4. Fibrosa, sibrous, consisting entirely of Filaments. 5 Ramosa, ramous, subdivided into branchy Fibres.

6 Fusiformis, spindle-shaped, simple, and gradually lessening downward.

7 Præmorsa, bitten, or gnawed.

8 Repens, creeping horizontally, and putting forth Radicles downward, and shooting upwards.

9 Articulata, jointed, divided into Joints.

10 Dentata, toothed, having rows of Knobs like Teeth.

11 Globosa, round, (158) Roots springing from the Sides of others.

12 Tuberofa, tuberous, confishing of sleshy bodies connected by slender Fibres.

* Vide Page 177.

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13 Fascicularis, bunched, sleshy Roots sessile, connected at the Base (150)

14 Palmata, handed, fleshy lobate Roots, like Fingers (184)

15 Bulbofa, furnished with a Bulb (655)

16 Granulata, granulated, round fleshy Roots like Seeds.

TRUNCUS the TRUNK or STEM,

The Organ which supports the Branches, Leaves, and Fructification.

KINDS.

17 Caulis, a Stem, which elevates the Fructification and Leaves.

18 Culmus, a Straw, properly the Trunk of Graffes.

19 Scapus, a Stalk, elevating the Fructification and not the Leaves.

20 Stipes, a Trunk that expands itself into a Leaf.

DURATION.

21 Herbaceous, herb-like, that perishes every Year, an annual Stem, not woody.

22 Suffruticofus, suffruticous, half-shrubby, the Root permanent, and the Branches sometimes withering.

23 Fruticosus, shrubby, with perennial Stalks arising from the Root, that are woody.

24 Arboreus, tree-like, with a fingle woody Stem from the fame Root.

25 Solidus, folid, without internal Pores.

z6 Inanis, pithy, filled with a spongy Substance.

27 Fistulosus, sistulous, hollow like a Pipe.

DIRECTION.

28 Erectus, erect, rising nearly to a perpendicular Direction.

29 Strictus, straight, perpendicular without Flexure.

30 Rigidus, hard, not easily bent.

31 Laxus, loose, easily bent.

- 32 Obliquus, awry, in a Direction neither perpendicular nor horizontal.
- 33 Adcendens, rifing upwards, with a Curve like an Arch.

34 Declinatus, declined, bending downwards archways.

35 Incurvatus, incurvate, bending inwards.

36 Nutans, nodding, the Top or Head bent downwards.

37 Diffusus, diffuse, with spreading Branches.

38 Procumbens, procumbent, lying on the Ground.

39 Stoloniferus, producing Shoots or Runners from the Root. 40 Sarmentofus, thread like, producing Roots from the Joints.

Repens, creeping, trailing on the Ground, and here and there producing Roots.

42 Radicans, rooting, striking Root laterally and fixing to other Bodies.

43 Geni

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43 Geniculatus, jointed, divided by Knots or round Swellings.

44 Flexuofus, waved, bent backwards and forwards from Bud to Bud.

45 Scandens, climbing, generally by the Support of some

other Body.

46 Volubilis, twining, growing round fome other body in a fpiral ascending Direction.

Dextrorsum, twining from the Right to the Left. Sinistrorsum, twining from the Left to the Right.

FIGURE.

47 Teres, round, cylinder-shaped without Angles.

48 Semiteres, half-round, semicylindrical.

49 Compressus, flattened, with two opposite Sides slat.

Angulatus angulated having three or more Angulas formed

51 Angulatus, angulated, having three or more Angles formed by as many intermediate longitudinal Cavities. Acutangulus, sharp-angled.

Obtusangulus, obtusely-angled.

52 Triqueter, three-sided, having three Sides that are quiteslat.

53 Trigonus, Tetragonus, &c. three-cornered, four-cornered &c. having three, four, or more prominent Angles lengthways.

54 Nudus, naked, without Leaves or other Covering.

55 Aphyllus, without Leaves.

56 Foliatus, leafy, furnished with Leaves.

57 Vaginatus, sheathed, surrounded with a Sheath, formed by the Base of the Leaf.

58 Squamosus, squamous, covered with Scales.

159 Imbricatus, imbricate, covered with Leaves or Scales placed like Tiles, or the Scales of Fishes.

SURFACE.

- 60 Suberofus, fuberous, the outward Bark foft, but elastic like Cork.
- 61 Rimofus, rimous, the outward Bark full of Cracks and Fiffures.
- 62 Tunicatus, tunicated, coated with Skins or Membranes.
- 63 Lavis, finooth, free from Protuberances or Inequalities.

64. Striatus, striate, marked with finall Lines.

65 Sulcatus, sulcate, surrowed with deep hollow Lines.

66 Glaber, flippery, fmooth and gloffy like Glass. 67 Scaber, scabrous, covered with rough Prominences.

68 Muricatus, muricated, covered with sharpPoints or Prickles.

69 Tomentosus, tomentose, covered with Down.

70 Lanatus, woolly.

71 Villosus, villous, covered with soft Hair.

72 Pilosus, pilose, covered with long Hairs that are thinly placed.
73 His-

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73 Hispidus, hispid, covered with stiff Hairs or Bristles.

74 Aculeatus, aculeate, armed with Prickles, 378.
75 Spinofus, fpinous, armed with Thorns, 384.
76 Urens fringing armed with Stings and

76 Urens, stinging, armed with Stings, 391.
77 Stipulatus. stipulate, having stipula, 291.

78 Membranatus, membranated, flat like a thin pellucid Leaf.

79 Bulbiferus, bearing Bulbs, 655.

COMPOSITION.

- 80 Enodis, without Knots or Joints, the Thickness uniform.
- 81 Simplicissimus, very simple, with few or no Branches.
 82 Simplex, simple, that rises uniform and regular to the Top.

83 Integer, intire, undivided.

84 Articulatus, jointed.

85 Prolifer, proliferous, fending forth Branches only from the Appex.

86 Dichotomus, branched always by two, forked.

87 Brachiatus, brachiate, branching opposite, the upper Pair crossing the next below.

88 Subramosus, subramous, having sew lateral Branches.

89 Ramosus, ramous, having many lateral Branches.

90 Ramosissimus, many Branches, subdivided without Order, in all Directions.

91 Virgatus, virgated, with many slender Twigs.

- 92 Paniculatus, paniculated, whose Branches are variously subdivided.
- 93 Fastigiatus, fastigiate, Branches arising from a Centre to an equal Height.

94 Patens, spreading, 134.

95 Divaricatus, divaricate, Branches forming an obtuse Angle from the Trunk, 105.

RAMI PARTES CAULIS,

The Branches Part of the Stem.

96 Alterni, alternate, when they come out fingle and follow in gradual Order, 115.

97 Distichi, distichous, in two Rows.

98 Sparfi, sparsed, scattered without Order, 118.

99 Conferti, crowded, 119. 100 Oppositi, opposite, 126.

101 Verticillati, verticillate, Branches furrounding the Stem, or at the Joints, like the Rays of a wheel.

102 Erccti, erect, upright, perpendicular.

103 Coarctati, close together, almost touching towards the Top. 104 Divergentes, divergent, Branches growing from the Trunk

at Right Angles like Rays from a Centre.

105 Divaricati, divaricate, Branches shooting from the Trunk, fo as to make an obtuse Angle.

106 De-

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106 Deflexi, deflex, bending downwards archwise. 107 Reflexi, reflex, bending back towards the Trunk.

108 Retroflexi, retroflex, bending backward and forward towards the Trunk.

109 Fulcrati, fulcrate, having Props or Supports.

THE LEAVES,

The Organs by which Plants are put in Motion.

THEIR PLACE.

Radicale, radical, springing from the Root.
111 Caulinum, cauline, springing from the Stem.
112 Rameum, rameous, growing on the Branches.

Axillare, axillary, placed at the Infertion of the Branch.

Florale, floral, placed near the Flower, and are commonly fmaller.

SITUATION.

Alterna, alternate, when they come out fingle, and follow in a gradual Order.

116 Disticha, distichous, disposed in two opposite Rows, though

inferted on all Sides.

Branch or Middle Rib.

118 Sparsa, sparsed, scattered in no certain Order.

119 Conferta, confert, crowded together.

- 120 Imbricata, imbricate, lying over one another like Scales of Fishes.
- 121 Fasciculata, sasciculate, growing in Bunches from one Point.
- 122 Gemina, Trina, &c. two, three, or more together from the fame Point.
- 123 Confluentia, confluent, growing together or running into one another at the Base.
- 124 Approximata, approximate, mutually approaching each other.
- 125 Remota, remote, placed at some Distance from each other.
- 126 Opposita, opposite, growing opposite, but in such a Manner that each Pair crosses the other above and below.
- 127 Decussata, decussated, where the Pairs cross each other in a regular manner.

128 Verticillata, verticillate, whorled, where three or more Leaves furround the Stem.

129 Ternata, Quaterna, &c. three or four together, &c. according to the number of Leaves furrounding each Joint.

DIRECTION.

130 Erectum, erect, upright, perpendicular.

131 Strictum, straight, quite perpendicular without Flexure or bending.

132 Rigidum, rigid, stiff, not easily bent.

133 Ad-

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133 Adpressum, adpress, the Disk of the Leaf pressed towards the Stem.

134 Patens, patent, fpreading, making an acute Angle with the Stem.

Horizontale, horizontal, growing from the Stemat Right Angles.

136 Affurgens, affurgent, bending upwards, 33.

137 Inflexum, inflex, bending inwards towards the Stem.

138 Reclinatum, reclinate, bending downwards archwise, the Apex ascending.

139 Recurvatum, recurvate, bent backwards in the Form of an Arch, the convex Side upwards.

140 Revolutum, revolute, rolled back in Form of a Scroll.

141 Dependens, dependent, hanging with the Point downwards.

142 Obliques, oblique, the Bate looking upwards the

Apex to the Horizon.

143 Verticale, vertical, Leaves fo fituated that the Base is perpendicular to the Apex.

144 Resupinatum, resupinate, when the lower Disk of the Leaf looks upwards.

145 Submersum, submersed, sunk under the Surface of the Water.

146 Natans, natant, floating on the Surface of the Water.

147 Radicans, radicant, striking Root.

Insertion.

148 Petiolatum, petiolate, having a Petiole or Footstalk, 290.

149 Peltatum, peltate, having the Footstalk inserted into the Disk of the Leaf.

150 Sessile, sessile, sitting immediately on the Stem without a Footstalk.

151 Adnatum, adnate, the upper Disk of the Leaf adhering to the Stem by an Attachment of its Base.

152 Coadunata, coadunate, several growing together at their Base.

Decurrens, decurrent, where the Base of a sessile Leaf is elongated and runs down the Stem,

154 Amplexicaule, amplexicaul, embracing the Stem with its Base.

155 Perfoliatum, perfoliate, where the Base of the Leaf entirely furrounds the Stem, or when the Stalk grows through the Centre of the Leaf.

156 Connata, connate, where two opposite Leaves grow together at their Bases.

Vaginans, vaginant, where the Base of the Leaf forms a tubular Sheath that surrounds the Stem.

FIGURE. .

158 Subrotundum, subrotund, almost round, nearly circular.

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159 Obiculatum, orbiculate, of a circular Figure.

160 Ovatum, ovate, egg-shaped.

161 Ovale, oval, the Shape of an Egg when both ends are equal.

162 Oblongum, oblong, twice the Length of its Breadth.
163 Parabolicum, parabolic, like the smaller End of an Egg.

164 Cuneiforme, cuneiform, wedge-shaped, tapering from the Apex to the Base.

and linear at the Base.

166 Rotundatum, rotundate, rounded, or with Angles in a Circle.

167 Lanceolatum, lanceolate, oblong, and tapering towards both Extremities.

168 Ellipticum, elliptical, an Oval whose Ends are equal. 169 Lineare, linear, every where of the same Breadth.

170 Accerosum, acerose, linear, and permanent, like Chaff, or the Leaves of Pines.

Angles.

171 Integrum, entire, undivided, without Divisions. 172 Triangulare, triangular, &c. three-angled, &c.

173 Deltoideum, deltoid, a Leaf whose angles are formed like the Greek Delta.

174 Rhombeum, rombus-shaped, an irregular four-sided Figure resembling the Ace of Diamonds.

SINUSES.

175 Trapeziforme, trapeziform, a Figure of four unequal Sides.

176 Cordatum, cordate, heart-shaped. 177 Reniforme, reniform, kidney-shaped.

178 Lunatum, lunate, shaped like a half Moon.

179 Sagittatum, fagittate, arrow-shaped. 180 Hastatum, hastate, spear-shaped.

181 Runcinatum, runcinate, like the Teeth of a great Saw whose Serratures are bent downwards.

182 Panduriforme, panduriform, fiddle-shaped. 183 Fissum, slit, divided into linear Partitions.

184 Lobatum, lobate, divided into Lobes.

185 Bilobum, Trilobum, &c. two and three-lobed, &c. according to the Number of Lobes.

186 Partitum, partite, divided almost to the Base; the Number of Divisions are expressed by the Terms Bipartite, Tripartite, &c.

187 Palmatum, palmate, divided like a Hand.

188 Lyratum, lyrate, lyre-shaped, with transverse Divisions broadest at the Apex, the lower ones gradually less and more distant.

189 Pinnatifidum, pinnatifid, deeply divided into transverse, lateral, oblong Segments.

 \mathbb{C} \mathfrak{c}

190 Sinuatum, sinuate, divided into lateral Hollows.

191 Laciniatum, laciniate, divided into Segments.

192 Squarrosum, squarrose, divided into elevated Segments, not plane or parallel, as in the Calyx of some syngene-shous Plants.

MARGIN.

193 Integerrimum, very entire, without any Incision.

194 Crenatum, crenate, where the Margin is notched at Right Angles to the Centre without inclining to either Extremity.

195 Serratum, serrate, sawed, Notches like the Teeth of a Saw, inclining all the same Way, either towards the

Point, or Base.

196 Ciliatum, ciliate, where Bristles are arranged in a parallel Order on the Margin of the Leaf, like Eye-lashes.

197 Dentatum, dentate, toothed, Points Like Teeth protruding from the Margin of the Leaf, at some Distance from each other.

198 Spinosum, spinose, where the Margin is armed with sharp

Spines.

199 Cartilagineum, cartilagineous, where the Margin is hard and tough.

200 Repandum, repand, where the Margin is waved.

zo1 Lacerum, lacerate, where the Margin is variously divided, as if torn.

202 Erosum, erose, where the Margin is sinuate, is if gnawed with Teeth.

203 Membranaceum, membranaceous, where the Margin is thin and pellucid.

204 Dædaleum, dedalous, where the Margin has many various

Windings and Turnings.

APEX.

205 Obtusum, obtuse, where the Point is rounded.

206 Emarginatum, emarginate, where the Apex is notched.

207 Retusum, retuse, terminating in an obtuse Hollow.

208 Præmorsum, premorse, where the Termination appears as if bitten off.

209 Truncatum, truncate, terminating in a Line as if cut off.

210 Acutum, acute, terminating in a sharp Angle.

211 Acuminatum, acuminate, terminating in a sharp Point. 212 Cuspidatum, cuspidate, terminating in a Point like a Spear.

213 Mucronatum, mucronate, terminating in a small Prickle. 214 Cirrhosum, cirrhose, terminating in a Clasper or Tendril,

292.

SUR-

SURFACE.

215 Nudum, naked, without Hairs or Excrescences.

216 Glabrum, smooth, slippery.

217 Nitidum, gloffy, fmooth, and shining. 218 Lucidum, lucid, bright, reflecting Light.

219 Coloratum, coloured, of a Colour different from Green.

220 Nervosum, nervous, with Nerves extended from the Base to the Apex.

221 Trinerve, where three Nerves join at the Base and Apex.

222 Triplinerve, where three Nerves are each divided into three more above the Base.

223 Trinervatum, where three Nerves run into each other at the Base.

224 Enerve, without Nerves, opposite to nervous.

225 Lineatum, lined, with depressed Nerves or hollow Lines.

226 Sulcatum, furrowed, with deep Lines.

227 Venosum, veined, with Veins many Ways. 228 Rugosum, rugose, wrinkled, shrivelled, rough.

229 Bullatum, fludded, bladdery, alternately convex and concave.

230 Lacunosum, where the Disk of the Leaf is depressed into deep Cavities between the Veins that run parallel from the Disk to the Margin.

231 Avene, without Veins.

232 Punctatum, punctate, with hollow scattered Punctures. 233 Papillosum, papillose, covered with sleshy Punctures.

234 Papulosum, papulose, covered with vascular Punctures.

235 Viscidum, viscid, covered with a viscid Humour.

236 Villofum, villous, covered with foft Hairs.

237 Tomentosium, downy covered with downy Hairs.

238 Sericeum, filky, covered with foft filky Hairs. 239 Lanatum, woolly, covered with woolly Hairs.

240 Barbatum, bearded, Hairs growing in Tufts.

241 Pilosum, pilous, covered with long Hairs that appear distinctly.

242 Scabrum, rough, covered with rigid Punctures raised above the Surface.

243 Hispidum, hispid, covered with hard Bristles.

244 Aculeatum, prickly, covered with sharp Prickles (378)

245 Strigosum, strigous, armed with lance-shaped Prickles
(167)

EXPANSION.

246 Planum, plane, with a flat equal Surface.

247 Canaliculatum, channelled, a deep Channel or Furrow, running lengthways.

248 Concavum, concave, when the Disk is arched from the Margin, and forms a Hollow.

Cc2

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249 Convexum, convex, opposite to concave: these two Terms arise from the same Cause, the Margin being too tight for the Expansion of the Disk; therefore if a Leaf is concave on one Side, it is convex on the other.

250 Cucullatum, hollowed, when the Sides of a Leaf press together at the Base, and expand towards the Apex.

251 Plicatum, plaited, folded in sharp Flexures from the Disk to the Margin.

252 Undatum, waved, the Flexures or Folds being obtuse from the Disk to the Margin.

253 Crifpum, curled, where the Margin is plaited, but the Folds do not reach to the middle Rib of the Disk.

SUBSTANCE.

- 254 Membranaceum, skinny, pellucid, without any sleshy Substance.
- 255 Scariosum, of a dry parched Substance, that sounds when touched.
- 256 Gibbum, gouty, when both Sides of a Leaf is bunched out by a-copious Quantity of Pulp.

257 Teres, cylindrical, or pillar-shaped.

- 258 Depressum, more pulpy in the Disk, and slatted towards the Sides.
- 259 Compressium, more flatted in the Disk, and pulpy towards the Sides.
- 260 Carinatum, carinate, the lower Part of the Disk prominent lengthwise.

261 Compactum, compact, of a folid Substance.

262 Tubulosum, tubulous, the Inside hollow without Pith.

263 Pulposum, pulpous, of a sleshy pulpy Substance. 264 Carnosum, sleshy, the Inside of a solid Pulp.

265 Triquetrum, triquetrous, three-corncred lengthwise.

266 Anceps, two angled or edged lengthwise.

- 267 Lingulatum, Tongue-shaped, linear, sleshy, the lower Side convex.
- 268 Ensisforme, sword-shaped, doubled-edged, gradually lessening from the Base to the Point.

269 Subulatum, subulate, linear at the Base, and smaller towards the Point.

270 Acinaciforme, scymitar-shaped, sleshy, and compressed, one Side convex sharp, the other straight and thicker.

271 Dolabriforme, hatchet-shaped, compressed and half round, gibbous outward, the Edge sharp, the lower part rounded.
DURATION.

272 Deciduum, deciduous, finished, and falling off in one Summer.

273 Caducum, cadent, falling off, short Duration, not abiding through the Summer.

274 Per-

BOTANIC TERMS.

274 Persistens, persisting, abiding, lasting or remaining more than one Summer.

275 Perenne, perennial, continuing green many Years.

276 Sempervirens, evergreen, green at all Times of the Year. Composition.

277 Articulatum, articulate, a Leaf having a little Leaf growing out of its Point.

278 Conjugatum, conjugate, winged, the little Leaves or

Wings coming by Pairs.

279 Digitatum, digitate, a single Foot-stalk connecting the little Leaves at its Top.

280 Binatum, Ternatum, Quinatum, &c. terminating by two,

three, or five little Leaves or Folioles.

281 Pedatum, Pedate, like the Toes of the Feet, the Footstalk dividing Sideways obliquely, and connecting many Folioles.

282 Pinnatum, pinnate, winged, a simple Foot-stalk connect-

ing many little Leaves sidewise.

283 Bijugum (thus Trijuga, Quadrijuga, Quinquejuga, Sejuga, &c.) winged, but the little Leaves coming by Pairs, and are four, fix, eight, ten, twelve, &c.

Cum impari, winged, not terminating in Pairs, but with

an odd Foliole.

Abrupte pinnatum, abruptly winged, terminating without a tendril, or an odd Foliole.

Cirrofum, Cirrhous, terminating in a Tendril or Clasper,

Foliolis oppositis, (126) the little Leaves growing opposite. Foliolis alternis, (115) the little Leaves growing alternate.

ruptis, the little Leaves alternately smaller, broken. —— Decurnivis, the Foot-stalks of the little Leaves running down the middle Rib, or Rachi (153)

DECOMPOSITION.

284 Bigeminum, the Foot-stalk forked by twos (86), connecting many little Leaves.

285 Biternatum, doubled by threes (280)

286 Bipinnatum, double winged (282)

TRIPLE COMPOSITION.

287 Tergeminum, tripple-budded. 288 Triternatum, Three times three.

289 Tripinnatum, three Ways winged.

FULCRA, PROPS.

Supports for the better sustaining the different Parts of Plants. 290 Petiolus, a Foot-stalk that sustains the Leaf.

291 Stipula, a Scale at the Base of the Footstalk which it supports. C c 3

292 Cis-

292 Cirrhus, Claspers, or Tendrils, growing like Threads, in a spiral Form, which takes hold of Plants, or any other Body near it.

293 Pubes, a downy Hair in all Plants.

294 Arma, armed with Points, to keep off Animals from hurting them.

295 Bractea, floral Leaves, the Face and Texture different from other Leaves.

206 Pedunculus, the Foot-stalk or Prop that sustains the Fructification.

PETIOLUS, FOOT-STALK of the LEAF.

FIGURE.

297 Linearis, (169) linear, every where the same breadth.

298 Alatus, winged, spread out at the Sides.

299 Clavatus, clubbed, thickened towards the Point. 300 Membranaceous, flat, thin, and generally pellucid. 301 Teres, (257) rounded like a Cylinder, pillar-shaped. 302 Semiteres (48) half-rounded, like a split Column.

303 Triqueter (52) three-sided.

MAGNITUDE.

304 Brevissimus, very short, when the Length of the Footstalk is not equal to the Length of the Leaf.

305 Brevis, short, not quite so long as the Leaf, 306 Mediocris, of the Length of the Leaf.

307 Longus, longer than the Leaf.

308 Longissimus, something longer than the Leaf.

INSERTION.

300 Insertus, inserted, joined. 310 Adnatus, (151) adhering to.

311 Decurrens, (153) running down the Branch.

312 Amplexicaulis, (154) embracing the Stalk with its Base. 313 Appendiculatus, a leafy Appendage adhering to the Base of a Leaf.

Direction.

314 Erectus (130) upright. 315 Patens (134) spreading.

316 Affurgens (136) bending upwards in a Kind of Arch.

317 Recurvatus (139) bent backwards,

SURFACE.

318 Glaber (216) smooth. 319 Aculeatus (244) prickly. 320 Nudus (215) naked.

321 Articulatus (84) jointed. 322 Spinescens, hard, and sharp.

STIPULÆ, APPENDAGES to the LEAF.

323 Geminæ, two and two, by Pairs,

324 So-

324 Solitariæ, single scattered.

325 Laterales, inferted in the Sides.

326 Extrafoliaceæ, on the Outside, below the Base of the Petiole.
327 Intrasoliaceæ, on the Inside, above the Base of the Petiole
328 Oppositifoliaceæ, opposite, placed on the Sides at the Base

328 Oppositifoliaceæ, opposite, placed on the Sides at the Base of the Leaf.

329 Caducæ, (273) falling off, withering before the Leaf.

330 Deciduæ, (272) falling annually.

331 Persistentes, abiding after the Leaf falls off.

332 Spinescentes, (322) hard and sharp, like a Spine or Prickle.

333 Sessiles, (150) squat, having no Foot-stalk.

334 Adnatæ, (151) adhering to the Branch by an attachment of its upper Surface.

335 Decurrentes, (153) running down the Branch.

336 Vaginantes, (157) surrounding the Stem like a Sheath.

337 Subulatæ, (269) awl-shaped.

338 Lanceolatæ, (167) lance-shaped. 339 Sagittatæ, (179) arrow-shaped.

340 Lunatæ, (178) moon-shaped.

340 Eunatæ, (178) moon-mape 341 Erectæ, (130) upright. 342 Patentes, (134) spreading.

343 Interrigimæ, (193) entire. 344 Serratæ, (195) fawed.

345 Ciliatæ, (196) lashed like the Eye.

346 Dentatæ, (197) toothed. 347 Fissæ, (183) split.

CIRRHUS, a TENDRIL OF CLASPERA 348 Axillaris, (113) at the Infertion of the Branch.

349 Foliaris, fitting on a Leaf.

350 Petiolaris, growing on the Footstalk of the Leaf, (290) 351 Peduncularis, (296) growing on the Footstalk of the Flower.

352 Simplex, undivided.

353 Trifidus, divided in three Parts. 354 Multifidus, divided in many Parts.

355 Convolutus, twisting in the same Direction as the Sun, in Rings.

356 Revolutus, revolute, rolled back in half spiral Rings.
PUBES, Down or Pubescence.

357 Pili, excretory Ducts, long distinct Hairs.

358 Lana, Wool, curled Hairs and thick. 359 Barba, bearded Tufts of parallel Hairs.

360 Tomentum, Down, Hairs scarcely conspicuous.

361 Strigæ, strong hard slat Hairs. 362 Setæ, Bristles, rigid round Hairs. 363 Simplices, single, not divided.

364 Hamosæ, hooked, by which they easily adhere to Animals.

C c 4

365 Ra-

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365 Ramosæ, s. Furcatæ, subdivided into little Branches or forked.

366 Plumosæ, feathery, composed of fine Down, or Hairs.

367 Stellatæ, starry, disposed cross-wise.

368 Hami, Hooks, Prickles with recurved Points.

369 Glochides, Prickles with the Points turned back, having

many Teeth.

370 Glandula, Glands, little Teats for throwing out the excrementitous Humour of Plants; these are either Sessiles, squat; Stipitata, having a Foot-stalk; or, Porus, having a Pore, often persorating a Leaf.

371 Utriculus, little Vessels replete with secretory Liquor.

372 Foliacei, inferted in the Leaves.

373 Petiolares, (350) inferted in the Foot-stalk of the Leaf. 374 Pedunculares, (351) inferted in the Foot-stalk of the Flower.

375 Stipulares, (291) inferted in the Stipula. 376 Viscositas, a Humour of a clammy Quality.

377 Glutinositas, a Humour whose Quality is of a lubricating slippery Nature.

ARMA, ARMS.

378 Aculei, sharp Prickles fixed in the Bark of Plants.

379 Recti, straight, without bending.

380 Incurvi, bent inwards. 381 Recurvi, bent outwards.

382 Furcæ, Prickles divided into many Forks.

383 Bifidæ, & Trifidæ, by two, and three, or according to the Number of Divisions.

384 Spina, a Spine, a Prickle fixed in the Wood of the Trunk, or Branch.

385 Terminalis, terminating the Branch.

386 Axillaris, (113) growing from the Infertion of the Branch.

387 Calycina, growing on the Cup.

388 Foliaris, (349) growing on the Leaf.

389 Simplex, (363) fingle.

390 Divisa, divided at the Point.

391 Stimuli, Stings, that make inflammatory Punctures, which go off with an Itching.

BRACTÆ, FLORAL LEAVES.

392 Coloratæ, (219) coloured.

393 Caducæ, (273) falling off with the Flower.

394 Deciduæ, (272) falling off. 395 Perfistentes, (274) abiding.

396 Coma, a Bractæ, terminating the Stalk above the Flower, distinguished by its Magnitude or Colour.

PEDUN:

PEDUNCULUS, FOOT-STALK of a FLOWER.

397 Partialis, in some Flowers growing from the common Foot stalk.

398 Communis, a Foot-stalk common to many Flowers.

399 Pedicellus, a little Foot-stalk proper to Flowers that have a common Foot-stalk, (398)

400 Scapus, a Peduncle rifing from the Root refembling a Stalk.

PLACE.

401 Radicalis, (110) springing from the Root. 402 Caulinus, (111) springing from the Stem. 403 Rameus, (112) growing from the Branch.

404 Petiolaris, (350) growing from the Petiole.

405 Cirrhiferus, (292) growing from the Tendril or Clasper. 406 Terminalis, (385) terminating the Branch.

407 Axillaris, (113) at the Infertion of the Branch or Last.

408 Oppositifolius, (328) having opposite Leaves. 409 Lateriflorus, (325) flowering at the Sides.

410 Intrafoliaceus, (327) within the Leaves.

411 Extrafoliaceus, (326) on the Outside of the Leaves.

SITUATION.

412 Alterni, (115) alternate. 413 Sparsi, (118) scattered. 414 Oppositi, (126) opposite.

415 Verticillati, (128) in Circles round the Stem.

Number.

416 Solitarius, (324) single. 417 Geminatus, (323) by twos.

418 Umbellula fessilis, many Peduncles from the faire Centre, produced of the same Height.

DIRECTION.

419 Adpressus, (133) pressed towards the Stem.

420 Erectus, (130) upright. 421 Patens (134) spreading.

422 Cernuus, the Point looking downwards. 423 Resupinatus, (144) looking upwards.

424 Declinatus, (34) bent downwards archwise. 425 Nutans, (36) nodding, hanging downware.

426 Flaccidus, slender, weak, when the Weight of a proper Flower makes it hang downwards.

427 Ascendens, (33) rising upwards archwise.

428 Pendulus, hanging loofe. 429 Strictus, (29) straight.

430 Flexuosus, bending from one Flower to another.

431 Retrofractus, bent backward and forward, as if broken, 32 Unistorus, Bistorus, Tristorus, &c. Multistorus, one Flower, two Flowers, three Flowers, &c. many Flowers according to the Number of Flowers growing on the Foot-stalk.

STRUCTURE,

SRUCTURE.

433 Teres (47) round, like a Cylinder.

Triqueter, (52) three-fided. 434 Triqueter, (52) three-fided. 435 Tetragonus, (53) four-angled.

- 436 Filiformis, thread-shaped, every where of equal Thickness. 437 Attenuatus, lessening gradually in Thickness towards the Point.
- 438 Clavatus, clubbed, thick towards the Point, (299)

439 Incrassatus, gradually thickening upwards.

440 Nudus, (215) naked. 441 Squamofus, (58) scaly. 442 Foliatus, (56) leafy.

443 Bracteatus, (295) furnished with floral Leaves. 444 Geniculatus (43) jointed.

445 Articulatus, (84) knotted.

INFLORESCENTIA, INFLORESCENCE.

Is the Manner by which Flowers are joined to the Plant by the Peduncle or Foot-stalk.

446 Verticillus, whorled, many Flowers growing round the Stalk in a Circle.

447 Scffiles, squat, without any manifest Foot-stalk. 448 Pedunculatus, a Peduncle elevating the Flowers. 449 Nudus, (450) (451) opposite to the following.

450 Involucratus, (520) furnished with an Involucrum.

451 Bracteatus, (4.43) having floral Leaves. 452 Confertus, Foot-stalks crowded together.

453 Distans, the Foot-stalks distant.

454 Capitulum, a Héad, Flowers collected into a Globe or Head. 455 Subrotundum, (456) nearly of a globular Figure, almost

round.

456 Globosom, globular, perfectly round. 457 Dimidiatum, halved, like a Globe cut into two Parts. 458 Foliosum, leafy, Leaves intermixed with the Flowers.

459 Nudum, naked, without Leaves or Briftles.

460 Fasciculus, bunched, a Flower growing in Bunches.

461 Spica, sessile Flowers growing alternate on a common Peduncle.

462 Simplex, a single Spike, undivided.

463 Composita, many little Spikes growing from the common Pcduncle.

464 Glomerata, many little Spikes crowded together.

465 Ovata, (160) Egg-shaped.

466 Ventricosa, (256) swoln, gouty.

467 Cylindrica, pillar-shaped.

468 Interrupta, Spikes alternately fmaller.

469 Imbricata, (120) scaled.

470 Articulata, (84) knotted, jointed.

471 Ramosa, branching variously.

472 Linearis, (169) linear of equal Width, lengthwise.

473 Ciliata, (196) lashed.

474 Foliacea, leafy.

475 Comosa, terminating in little Leaves.

476 Corymbus, (461) a Kind of Spike, whose Flowers are furnished with Foot-stalks, so proportioned to their Situation, as to elevate all the Flowers of the Spike to the same Height.

477 Thyrsus, (489) a Kind of crowded Panicle of an ovate Form.

478 Racemus, a Bunch of Flowers, the Peduncles coming at the Sides.

479 Simplex, undivided.

480 Compositus divided into many.

481 Unilateralis, all the Flowers growing on one Side.

482 Secundus, the Flowers all bending to one Side.

483 Pedatus, (281) the Foot-stalk coming on one Side like the Toes of the Feet.

484 Conjugatus, (278) joined by twos.

485 Erectus, (130) upright.

486 Laxus, (31) loose, not closely connected.

487 Nuclus, (459) naked. 488 Foliatus, (56) leafy.

489 Panicula, Flowers scattered on Peduncles that are divided in different Forms.

490 Simplex, always few Flowers.

491 Composita, many Florets coming together.
FRUCTIFICATION, FRUCTIFICATION.

Temporary Parts of Vegetables called the Generation.

- 492 Calyx, a Flower Cup, is the Termination of the outer Bark of the Plant, present in the Fructification.
- 493 Perianthium, a Flower Cup, whose Station is close to the Fructification.
- 494 Fructificationis, when it includes the Stamina and Germen.
- 495 Floris, containing the Stamina without the Germen. 496 Fructus, containing the Germen without the Stamina.
- 497 Proprium, without Respect to the Flower. 498 Monophyllum, confishing of one Leaf.

499 Polyphyllum, confisting of many Leaves.

- 500 2-5 Fidum, (183) divided into two, three, four, of five Divisions.
- 501 2-5 Partitium, (186) divided almost to the Base from two to five.
- 502 Integrum, entire, (171) undivided.

503 Tubulosom, (262) tube shaped.

504 Patens, (134) spreading.

505 Reflexum, the Parts bent backwards. 506 Inflatum, puffed out like a Bladder.

507 Abbreviatum, shorter than the Tube of the Corolla.

508 Obtusum, (205) the Divisions rounded.

509 Acutum, (210) the Divisions sharp. 510 Spinosum, (75) bearing Spines.

511 Aculeatum, (244) bearing Prickles.

512 Superum, when the Germen is below the Receptacle. 513 Inferum, when the Germen is above the Receptacle.

514 Commune, a common Calyx, containing many Florets as in compound Flowers.

515 Imbricatum, scaled, various Scales lying over one another,

516 Squarrofum, with Scales pointing many Ways.

517 Scariosum, having Scales; their Margins are membranaceous, hard, dry, and founding when touched.

518 Turbinatum, top-shaped, like an obverse Cone.

519 Calyculatum, when a lesser Calyx is added, and encircles the Base of the larger one.

520 Involucrum, a Kind of Calyx standing remote from the

Flower.

521 Universale, in umbelliferous Plants, standing under the universal Umbel.

522 Partiale, an Involucrum, standing under the partial Umbel.

523 Proprium, always under the Flower.

524 Gluma, a Husk, a Cup belonging to Grasses, whose Flowers it embraces with the Valves folded over.

525 Uniflora, when it embraces one Flower.

526 Multiflora, when it includes many Flowers.

527 Univalvis, when there is constantly but one Scale.

528 Bivalvis, when there are two Valves.

529 Multivalvis, when there are many Scales or more than two,

530 Colorata, (219) coloured. 531 Glabra, (216) smooth.

532 Hispida, (243) covered with hard Hairs.

533 Mutica, without Point, or Arista.

534 Arista, an Awl shaped Beard growing on the Husk.

535 Terminalis terminating and fixed to the Top of the Husk.

536 Dorsalis, fixed on the Outside of the Husk.

537 Recta, growing perpendicular,

538 Tortilis, twisted.

539 Geniculata, (43) jointed. 540 Recurvata, (139) recurved.

541 Amentum, ex Receptaculo, (635) a Catkin proceeding from a common Receptacle, resembling the Chast of Corn.

542 Spa-

542 Spatha, a Sheath, a Kind of Cup bursting out lenghtwise.

543 Univalvis, of one Valve, opening on one Side.

544 Dimidiata, halved, the inner one covering the Fruct ation on one Side, and the outer one on the other.

545 Calyptra, a Veil, or Hood, covering the Antheræ, in

Mosses.

546 Recta, straight, every where equal. 547 Obliqua, oblique, bent on one Side.

548 Volva, a membranaceous Calyx belonging to the Fungi.

549 Approximata, close to the Head.

550 Remota, at fome Distance from the Head.

551 Corolla, the Termination of the inner Bark, prefent in the Flower.

552 Petalum, a Petal, a Part of the Corollæ when divided

into many.

553 Tubus, a Tube, the lower Part of a Flower with one

554 Unguis, a Claw, the lower Part of a polypetalous Flower by which it is fixed to the Receptacle.

555 Limbus, the upper Part of a monopetalous Flower ex-

panded.

556 Lamina, the upper spreading Part of a polypetalous Flower.

Monopetala, vel Polypetala, &c. from one to many Petals, or according to the Number.

557 Regularis, of an equal Figure, the Size of all the Parts

proportioned to one another.

558 Irregularis, when the Limb and other Parts are disproportionate.

559 Inæqualis, when the different Sizes of the Parts do not correspond but in Proportion to one another.

560 Globosa, globe-shaped. 561 Campanulata, bell-shaped.

562 Infundibuliformis, funnel-shaped.

563 Rotata, wheel-shaped.

564 Hypocrateriformis, falver-shaped.

565 Ringens, gaping, irregular, with two Lips. Galea, the upper Lip gaping.

Labium, instead of gaping, the lower Lip stands forwards. 566 Faux, the Jaws gaping between the Divisions of the Co-

rollæ, where the Tube terminates.

567 Personata, (565) gaping, but shut between the Lips with a Palate.

568 Cruciata, having four equal spreading Petals.

569 Concava, (248) hollow. 570 Patens, (134) ipreading.

571 Papilionacea, butterfly-shaped, irregular. Carina, the Keel, the lower Petal often in Form of a Boat. Vexillum, the Standard, or upper Petal afcending. Ala, the Wings, standing single on each Side.

572 Composita, compound Flowers, having many Florets in a common Perianthium, above the common Receptacle.

1573 Ligulata, tongue-shaped, Florets whose Limb is plane, and expanded outward.

574 Tubulosa, Florets that are all tubular and equal.

575 Radiata, when the Florets are tubular in the Disk, and radiate and ligulate in the Margin.

576 Nectarium, Honey-pores, that part of the Flower bear-

ing Honey.

577 Proprium, properly so called, as a distinct Part from the

578 Petalinum, when inserted into the Petal.

579 Stamen, the male Organ of Generation furnished with a Viscus, designed for the Preparation of the Pollen.

580 Filamentum, Threads, the Part that elevates, and is connected to the Autheræ.

581 Æqualia, equal, when they are all of an equal Length.

582 Inæqualia, unequal, when some are long, and others short. 583 Connata, when joined in one Body, but their Number, Figure, and Infertion expressed.

584 Anthera, that Part of the Flower big with the Pollen,

which it emits when come to maturity.

585 Distinctæ, not cohering.

586 Connatæ, joined by the Sides into one Body. 587 Pollen, Powder, of the Antheræ, destined for the Impregnation of the Germen, and bursting in a viscous Humour, into fine Atoms, is by a prolific Blast scattered on the Stigma.

588 Pistillum, a viscous Humour adhering to the Fruit for the Reception of the Pollen, and is the female Organ of

Generation.

589 Germen, the immature Rudiment of the Fruit within the

590 Superum, when included in the Corollæ.

591 Inferum, when below the Corollæ.

592 Stylus, that Part of the Pistillum which elevates the Stigma from the Germen.

593 Stygma, the female Uterus, at the Top of the Pistil, furnished with a moist Humour.

594 Pericarpium, the Womb of the plant big with the Seeds, which it emits when mature.

595 Cap-

595 Capsula, a hollow Pericarpium, which cleaves or opens in some determinate Manner.

596 Valvula, an Opening, a Part of a Capsule or outer Cover

to the Fruit.

597 Loculamentum, a Kind of arched Cell for the Lodgement of the Seeds.

598 Diffepimentum, Partitions of the Fruit, which divide the Pericarpium into Cells.

599 Bicapfularis, two Capfules, Tricapfularis, &c. three

Capfules, or according to the Number.

600 Bilocularis, &c. two Cells, &c. according to the Number. 601 Tricocca, a Capfule with three protuberant Knobs,

which divide into three Cells.

602 Didyma, a Capsule with two gibbous Knobs, which divide into two Cells.

603 Siliqua, a Pericarpium of two Valves, in which the Seeds are fixed alternately to the opposite Sutures.

604 Compressa, flatted, the opposite Sides coming nearly

together.

605 Torulofa, brawny Protuberances, when the Pericarpium is bunched out by the Seeds.

606 Articulata, interrupted by arched joints.

607 Parallelum Dissepimentum, the Width, or Diameter of the Dissipement to which the Valves adhere.

608 Transversum Disseptimentum, Disseptiments running cross-

509 Legumen, a Pericarpium of two Valves, the Sceds fixed to one Suture only.

610 Isthmus Interceptum, Pods with various Cross-divisions,

forming distinct Cells.

- 611 Folliculus, a Pericarpium of one Valve, gaping lengthwife on one Side, without the Seeds being fixed to the Suture.
- 612 Drupa, a pulpy Pericarpium, without Valves, containing a Stone or Nut (633).

613 Succulenta, containing a pulpy Humour.

614 Sicca, opposite the foregoing, dry.

615 Pomum, an Apple, a flethy Pericarpium without Valves, containing a Capfule.

616 Bacca, a Berry, a pulpy Pericarpium without Valves. containing naked Seeds.

617 Nidulantia, Seeds nestling in the Pulp of a Berry. 618 Strobilus, a Pericarpium formed from an Amentum, with hard Scales lying over each other, as in the Pine Tree.

619 Se-

619 Semen, Seed, the Rudiment of a new Plant; are known according to the Number, Figure, Superficies, and Committence.

620 Hilum, the Eye, an external Scar of the Seed, where it has been fixed to the Fruit or Receptacle.

621 Corculum, the Essence of a new Plant within the Seed.

622 Plumula, Part of the Corculum, the ascending scaly Part of the Plant.

623 Rostellum, the descending Part of the Corculum that forms the Root.

624 Cotyledon, the fide Lobes of the Seed of a porous Substance, and perishing.

925 Corona a Crown, a little Cup adhering to the Top of

the Seed, by which it flies.

626 Pappus, a downy feathered Cup, adhering to the Top of the Seed, by which it flies.

627 Stipitatus, a Kind of thread-like Trunk, elevating the Down, and connecting it with the Seeds.

628 Capillaris, Hairs undivided.

629 Plumofus, having feathery Hairs.

630 Cauda, a Thread terminating the Seed. 631 Hamus, a hooked Seed adhering to Animals. 632 Ala, a membranaceous Wing, fixed to the Seed.

633 Nux, a Nut, a Seed covered with a bony epidermis,

having one, two, or more Cells.

63.4 Arillus, the proper exterior Coat of a Seed that falls off spontaneously, and is either cartilaginous, or succulent. 635 Receptaculum, the Base, by which the Parts of Fructi-

cation are connected.

636 Commune, containing many Flowers and Fruit.

637 Punctatum, a Receptacle marked with hollow Punctures.

638 Pilofum (241) hairy.

639 Paleaceum, chaffy Scales which distinguish the Florets.

640 Planum (246) plain, a flat Surface. 641 Convexum (249) the Disk elevated.

642 Conicum, cone-shaped, rounded and lessening towards the Point.

643 Subulatum (269) awl-shaped.

644 Compositus-flos, a compound Flower, with the Receptacle spread out and entire, the Florets sessile.

645 Aggregatus-flos, an aggregate Flower, the Receptacle enlarged, and the Florets on little Peduncles.

646 Umbella, an Umbel, a Receptacle which from a common Centre, runs out into thread-shaped Footstalks of proportionate Lengths.

647 Sim-

647 Simplex, when the Foot-stalks proceed from one and the same Centre of the Receptacle.

648 Composita, when every Foot-stalk of the general Umbel

produces a partial Umbel.

649 Universalis, composed of many simple Umbels.

650 Partialis, a little Umbel, a Part supported by the univer-

671 Prolifera, an Umbel more than decompound.

652 Cyma, a Receptacle producing many Foot-stalks from the same Centre, that are of unequal Lengths, the partial ones irregular on long fastigiate Peduncles.

653 Rachis, a thread-shaped Receptacle, the Flowers adhere-

ing to it lengthwise, and forming a Spike.

654 Spadix, a Receptacle of a Palm, produced within a Spatha or Sheath, divided into Branches that bear the Fruit.

dex, and contains the Rudiment of the Plant and Leaf that perishes.

656 Solidus, a solid sleshy Bulb, without any internal Divi-

fions.

657 Tunicatus, Bulbs having Coats lying over each other like the Onion.

658 Squamatus, Bulbs confisting of imbricated Scales, as in the Lily.

659 Caulinus, Bulbs growing on the Stalk of the Plant.

660 Gemma, a Bud, is an Hybernacle of the Future Plant with its Leaves.

661 Petiolaris, inclosing the Rudiment of the Leaves.

662 Stipularis, inclosing the Stipula.

663 Corticalis, confifting of cortical Squamæ.

664 Foliaris, containing the Leaf and not the Flowers.
665 Floralis, containing the Flowers and not the Leaf.

666 Communis, containing both the Leaf and the Flowers.

667 Vernatio, the Position of the Leaf within the Bud.

668 Conduplicata, when the parallel Sides of a Leaf approach.

669 Convoluta, rolled together in a spiral Form.

670 Involuta, rolled inwards spirally from the lateral Margins.

6.71 Revoluta, rolled spirally backwards from the lateral Margins.

672 Obvoluta, rolled together, one Margin embracing the other alternately.

673 Equitantia, when the Sides of the Leaves lie parallel, the outward one embracing the inner one.

674 Imbricata, a parallel straight Surface, lying over each other.

402 AN EXPLANATION OF

675 Plicata, plaited, when their Complication is in Plaits lengthwise.

676 Reclinata, reclined, reflexed downward towards the

Petiole.

677 Spiralia, spiral, twisted in transverse Plaits, so that the Apex becomes the Centre.

678 Æstivatio, the Complication of the Corollæ, before the unfolding of the Flower.

679 Convoluta, rolled together, (669)

680 Imbricata, (674) imbricate.

681 Conduplicata, (668) when the parallel Sides of the Leaf approach.

682 Valvata, having Valves.

683 Inæquivalvis, with unequal Valves.

684 Somnus, Sleep, the Change that Leaves of Plants un-

dergo in the Night.

685 Connivens, when the upper Disk of two opposite Leaves or Folioles are pressed together so as to appear one Leaf.

686 Includens, when the Leaves are alternate, and in the Night press against the Stalk, so as to include it.

687 Circumsepiens, when Leaves growing in an horizontal Pofition, erect themselves in the Night, by clasping together in the Form of a Funnel

688 Muniens, when the Leaves have foot-stalks spreading horizontally, become dependent in form of an hollow

Arch.

689 Conduplicans, doubling, when the Folioles lightly approach each other with their upper Disk, so that both are covered.

690 Involvens, when the Points of the upright Folioles are pressed together, and form a Cavity between.

691 Divergens, when the Base of the Folioles approach, and

the Points are spreading.

692 Dependens, when the Folioles hang downwards.

693 Invertens, when the Folioles hang down, and are at the fame Time inverted.

694 Imbricans, the Folioles imbricated, (120)
MENSURA, their MEASURE.

605 Linearis, linear, the twelfth Part of an Inch.

696 Unguicularis, the Length of a Nail.

697 Policaris, the Length of the outward Joint of the Thumb.

668 Palmaris, the Width of the Hand.

699 Spi-

699 Spithamæus, a Span, the Length between the Point of the Thumb and fore Finger.

700 Dodrantalis, nine Inches, the Space between the Point of the Thumb, and little Finger, when extended.

701 Pedalis, a Foot, the Space from the bending of the Elbow to the Base of the Thumb.

702 Orgyialis, a Fathom, or fix Feet, the Height of a Man, or the Space between the extreme Points of the Fingers, when the Arms are extended.

G L O S S A R Y;

EXPLAINING THE

TECHNICAL TERMS

1 N

B O T A N Y:

IN ALPHABETICAL ORDER

A

A Breviatum perianthium, shortened, when the Cup is shorter than the Tube of the Flower.

Abortiens flos, barren Flowers, fuch as produce no Fruit.

Abruptum folium pinnatum, winged Leaves ending without either Foliole or Cirrhus.

Acaulis, without Stalk or Stem.

Acerosum folium, chassy Leaves, when they are linear and abiding, as in Pinus, Abies, and Juniperus.

Acicularis, Needle-shaped, as in Scirpus acicularis.

Acinaciforme, Falchion or Scimitar-shaped, as in Mesembryanthemum acinaciforme.

Acini, the small Berries which compose the Fruit of a Mulberry or Bramble.

Acotyledones, Plants whose Seeds have no Cotyledons or feminal Leaves.

Aculei, Prickles, fixed in the Rind or Surface of the Bark. Aculeatus caulis, a Stalk or Stem furnished with Prickles.

Acuminatum folium, a Leaf ending in a Point.

Acutum folium, Leaves terminating in an acute Angle.

Adnatum folium, the Disk of the Leaf pressing close to the Stemos the Plant.

Adpressa folia, the Disk of the Leaf pressed towards the Stem. Adcendens caulis, a Stalk or Branch inclining upwards.

Adversum folium, when the Sides of the Leaf are turned to-

wards the South.

Aggregatus flos, an Assemblage of Flowers coming in Clusters.
Aggregatæ,

Aggregatæ, an Order of Plants in the Fragmenta methodi naturalis of Linnæus.

Ala, a Wing, the Side Petals of a papilionaceous Blossom, or a Membrane added to a Seed, Stalk, &c.

Alatus petiolus, when the Foot-stalk of a Leaf is winged with Membranes.

Alburnum, the white Substance that lies between the inner Bark and the Wood of Trees.

Algæ, Flags, one of the seven Families of Plants.

Alterni Rami folia, when they come out fingly, and follow in gradual Order.

Amentaçeæ, an Order of Plants in the Fragmenta methodi naturalis of Linnæus, bearing Catkins.

Amentum, a Catkin.

Amplexicaule folium, embracing the Stalk when the Base of the Leaf embraces the Stem sideways.

Anceps caulis, double-edged, when a Stalk is compressed, and forms two opposite acute Angles.

Androgyna, Plants bearing male and female Flowers on the fame Root.

Angulatus caulis, angulated Stalks.

Angustifolia, narrow-leaved.

Angiospermia, the second Order in the Class Didynamia of Linnæus; containing Plants whose Seeds are covered with a Capsule.

Annua radix, an annual Root; that which lives but one Year.

Anthera, the Summit of the Stamina bearing the Pollen, and is a Part of the Principal male Organ of Generation.

Apertura, an Aperture, opening in some Species of Anthera. Apetalus flos, having no Petals or Corolla.

Apex, the Top, or Summit.

Aphyllus caulis, destitute of Leaves.

Apophysis, an Excrescence from the Receptacle of the Musci. Appendiculatus petiolus, a little Appendage hanging from the Extremity of the Foot-stalk.

Aproximata folia, Leaves growing near each other.

Arbor, a Tree.

Arbustiva, a Copse of Shrubs or Trees, an Order of Plants in the Fragmenta methodi naturalis of Linnæus.

Arcuatum legumen, arched, a Pod that is curved or bent,

Arillus, the proper exterior Coat of a Seed that falls off spontaneously.

Arista, the Beard of Corn or Grasses.

Arma, Arms, Weapons, one of the seven Kinds of Fulcra of Plants.

Articulatus caulis, Culmus, having Knots or Joints.

Articulus culmi, the straight Part of the Stalk between the two Joints.

Asperisolia, rough-leaved Plants, an Order of Plants in the Fragmenta methodi naturalis of Linnæus.

Assurgentia folia, first bent down, but rising erect towards the Apex.

Attenuatus pedunculus, when the Foot-stalk grows smaller towards the Flower.

Auctus calyx, augmented, having a Series of distinct Leaves, shorter than its own, that surround its Base.

Avenia folia, Leaves which have no visible Veins.

Auriculatum folium, an Ear-shaped Leaf, when the Leaf towards the Base has a Lobe on each Side.

Axillaria folia, growing out of the Angles formed by the Branches and the Stem.

B

Bacca, a Berry; or a pulpy Pericarpium without Valves, in which the Seeds are naked.

Barba, a Beard, a Species of Pubescence, sometimes on the Leaves of Plants, as on the Mesambryanthemum barbatum. Barbatum folium, when a Bunch of strong Hairs terminate the

Leaves.

Bicornes, Plants whose Antheræ have the Appearance of two Horns. Likewise an Order of Plants in the Fragmenta methodi naturalis of Linnæus.

Biennis radix, a Root which continues to vegetate two Years.

Bifaria folia, a Leaf pointing two ways. Biferæ plantæ, flowering twice a Year.

Bifidum folium, divided or cloven into two Parts.

Bistorus pedunculus, bearing two Flowers on a Foot-stalk.

Bigeminum folium, a forked Foot-stalk, with two little Leaves on the Apex of each Division.

Bijugum folium, a winged Leaf, bearing two Pair of Foliola.

Bilabiata corolla, a Corolla with two Lips. Bilobum folium, a Leaf confishing of two Lobes.

Binata folia, a digitate Leaf, consisting of two Foliola. Bipartitum folium, a Leaf divded into two Segments.

Bipinnatum folium, doubly winged, when the Folioles of a pinnate Leaf are pinnate.

Biternatum folium, when there are three Folioles on a Petiole, and each Foliole is ternate; as in Epimedium.

Bivalve pericarpium, confishing of two Valves, as in the iliqua and Legumen.

Brachiatus

Brachiatus caulis, branching in Pairs; each Pair standing at right Angles with those above and below.

Brachium, the Arm, tenth Degree in the Linnaan Scale for

measuring Plants, being twenty-four Parisian Inches. Bracta, a storal Leaf, these are generally of a different Shape, and Colour from the other Leaves of the Plant, and are always feated near the Fructification.

Bracteatus, having a Bractea growing out of it.

Bulbiferus caulis, a stalk bearing Bulbs, as in a Species called Lilium bulbiferum.

Bulbosa radix, a bulbous Root, and is either Squamosa, scaly, as in Lilium; tunicata, coated, as in Cepæ; duplicate, double, as in Fritillaria; or Solida, as in Tulipa.

Bullatum folium, when the Surface of the Leaf rifes above

Veins, so as to appear like Blisters.

Caducus calyx, to fall off; a Term fignifying the shortest Time of Duration, falling off at the first opening of the Flower.

Calamariæ, a Reed, an Order of Plants in the Fragmenta methodi naturalis of Linnaus.

Calcariatum nectarium, a kind of Nectarium refembling a Spur, as in the Delphinium.

Caliculatus calyx, a little Calyx added to a larger one, as in the Coreopsis, Leontice, &c.

Calycanthemi, a calyx, an Order of Plants in the Fragmenta methodi naturalis of Linnæus.

Calyptra, a Veil, in Mosses, where it is placed over the An-

Calyx, a Flower Cup of which there are the following Kinds, viz. Perianthium, Involucrum, Amentum, Spatha, Gluma, Calyptra, and Volva.

Campanacei, an Order of Plants in the Fragmenta methodi. naturalis of Linnaus.

Campanulata corolla, Bell-shaped Flowers.

Canaliculatum folium, Leaves having a deep Channel running from the Base to the Apex.

Candelares, an Order of Plants in the Fragmenta methodi naturalis of Linnaus.

Capillaceum folium, Capillary, exemplified in the Ranunculus aquatilis.

Capillaris pappus, hairy Down, as in Hieracium, and Sonchus. Capillus, Hair, the first Degree of the Linnaan Scale for mea-D d 4

furing Plants, the Diameter of a Hair, and the twelfth Part of a Line.

Capitati flores, Flowers collected into Heads, as in Mentha

aquatica, and Thymus ferpylluni.

Capitulum, a little Head, a species of Inflorescentia, in which the Flowers are connected into close Heads on the Tops of the Peduncles as in Gomphrena.

Capreolus, a tendril, fee Cirrhus.

Capfula, a Capfule, a hollow Pericarpium, which cleaves or parts in some determinate Manner, and consists of Valvula Dissepimentum, Columella, and Loculamentum.

Carina, the Keel of a Boat, or Ship, the lower Petal of the

papilionaccous Corolla.

Carinatum folium, when the Back of a Leaf refembles the Keel of a Ship.

Cariophyllæus flos, Clove-tree, or Flowers growing in the Manner of Carnations.

Carnofum folium, a fleshy Leaf, as in Sedum dasyphillum.

Cartilagineum folium, a Leaf whose Brim is furnished with a Margin of different Substance from the Disk.

Caryophylli, Carnations or Pinks, an Order of Plants in the

Fragmenta methodi naturalis of Linneus.

Catenulata fcabritics, Species of glandular Roughness, hardly visible to the naked Eye, resembling little Chains on the Surface of fome Plants.

Caudex, the Stem of a Tree. Caulescens, having a Stalk or Stem.

Caulina folia, Leaves growing immediately on the Stem.

Caulis, a Stem, a Species of Truncus.

Cernuus, nodding, or hanging down its Head.

Cespitosa, Plants which produce many Stems from one Root, and form a Surface of Turf or Sod.

Ciliatum, whose Margin is guarded by parallel Briffles, sorm-

ed like the Eye-lash.

Circinalea folia, a Hoop or Ring, a Term of Foliation, expressive of the Leaves within the Gemma being rolled spirally downward.

Circumscissa capsula, cut transversly, as in Anagallis.

Cirrhiferus pedunculis, a Peduncle bearing a Tendril, as in Vitis. Cirrhosum folium, a Leaf that terminates in a Tendril, as in Gloriofa.

Cirrhus, a Clasper, or Tendril, one of the Fulera of Plants. Classis, a Class, is defined by Linneus to be an Agreement of feveral Genera in the Parts of Fructification, according to the Principles of Nature distinguished by Art.

Clavatus

Clavatus petiolus, pedunculus, when the Foot-stalk of the Leaf or Flower is Club-shaped, tapering from the Base to its Apex.

Clavicula, a little Key, a Tendril.

Clausa corolla, when the Neck of the Corolla is close shut in with Valves.

Coadunatæ, to gather together, an Order of Plants in the Fragmenta methodi naturalis of Linnæus.

Coarctati rami, close together, opposed to Divaricatus.

Cochleatum legumen, a Pod like the Shell of a Snail, as in Medicago.

Coloratum folium, coloured, when Leaves which are generally

green, are of a different Colour.

Columnella, a little Column, the Substance that passes through the Capsule, and connects the several Partitions and Seeds. Columniferi, Pillar-shaped, an Order of Plants in the Frag-

menta methodi naturalis of Linnaus.

Coma, a Bush, or Head of Hair, a Species of Fulcra, composed of large Brackæ, which terminates the Stalk as in Lavandula, Salvia, &c.

Communis gemma, regards the Contents of the Gemma, con-

taining both Flower and Fruit.

Communis calyx, when a Cup contains both Receptacle and Flower.

Comofæ, a Head of Hair, an Order of Plants in the Fragmenta methodi naturalis of Linnaus.

Comosa radix, the Fibres which put forth at the Base of z bulbous Root, refembling a Head of Hair.

Compactum folium, when the Leaf is of a compact and folid Substance.

Completus flos, having a Perianthium and Corolla.

Compositus caulis, a Compound Stem, diminishing as they ascend.

Compositum folium, when the Petiole bears more than one Leaf. of which are the following Species, viz. Articulatum, Digitatum, Conjugatum, Pedatum, Pinnatum, Decompositum, Supra-decompositum.

Compositi, an Order of Plants in the Fragmenta methodi na-

turalis of Linnæus.

Compressus caulis, folium, a Leaf resembling a Cylinder compressed on the opposite Sides.

Concavum folium, hollowed, the Margin forms an Arch with the Disk.

Conceptaculum, Conceptacle or Receiver, a Pericarpium of a fingle Valve, which opens on the Side lengthways, and has not the Seeds fastened to it.

Conduplicatum folium, doubled together, when the Sides of the Leaf are parallel, and approach each other...

Conferti

Conferti rami, Branches crowded together.

Confertus verticillus, flos, et folia, when Flowers and Leaves are formed into Whorles round the Stalk and crowded together.

Confluentia folia, to flow together, as in the pinnated Leaf,

when the Pinnæ run into one another.

Conglobatus flos, when Flowers are collected into globular heads. Conglomeratus flos, Flowers irregularly crowded together.

Congesta umbella, Flowers collected into a spherical Shape, as in the Allium.

Conica scabrities, a Species of Setaceous Scabrities, scarce visible to the naked Eye, on the Surface of Plants, formed like Cones.

Coniferæ, Plants bearing Cones, such as Pinus, Cupressus, &c. an Order of Plants in the Fragmenta methodi naturalis of Linnæus.

Conjugatum, to join or couple together, a Specis of pinnate Leaf, where the Folioles come by Pairs.

Connatum, to grow together, when two opposite Leaves unite at their Base, so as to have the Appearance of one Leaf.

Connivens corolla, when the Apices of the Petals converge, so as to close the Flower, as in Trollius Europæus.

Conniventes anthera, approaching or inclining together.

Continuatum folium, continued, when the Leaf appears to be a Continuation of the Substance of the Stalk.

Contorti, to twist, an Order of Plants in the Fragmenta methodi naturalis of Linnaus.

Contrariæ valvulæ, Valves are termed Contraria, when the Dissepimentum is placed transversly between them.

Convexum folium, a Leaf rifing from the Margin to the Centre

of the Leaf.

Convolutus cirrbus, a Tendril twining with the same Direction with the Sun's Motion.

Convolutum folium, a Term in Foliation, when the Leaf is rolled up like a Scroll of Paper.

Conus, see Strobilus.

Corculum, the Heart and Essence of the Seed.

Cordatum folium, the Heart-shaped Leaf.

Cordiformus, shaped like a Heart.

Corolla, a Wreath or Crown, one of the seven Parts of Fructification.

Corollula, a little Corolla

Corona feminis, a Crown adhereing to many Kinds of Seeds ferving them as Wings, which enables them to disperse.

Coronariæ an Order of Plants in the Fragmenta methodi naturalis of Linnæus.

Coronula, a little Crown.

Cortex,

Cortex, the outer Rind or Bark of Vegetables.

Corydales, an Order of Plants in the Fragmenta methodi na-

turalis of Linnæus.

Corymbus is a Kind of Spike, the Flowers of which have each its proper Pedicellus, or partial Foot-stalk raised to a proportional Height, as in Spirea opulifolia.

Cotyledon, a Side-lohe of the Seed, of a porous Substance,

and perishable, or seminal Leaves.

Crenatum folium, a notched Leaf, when the Margin is cut into Angles that point towards neither of the Extremities, obtusc-ly crenate, when the Angles are rounded, or acutely crenate, when the Angles are pointed.

Crispum folium, a curved Leaf, when the circumference be-

comes larger than the Disk admits of.

Cristatus flos, when the Flower has a tusted Crest, as in Poly-

gala.

Cruciformes fleres, Cross-shaped Flowers, consisting of four Petals, disposed in the Form of a Cross, as in the Class Tetradynamia of Linnaus.

Cryptogamia, hidden Marriages, the twenty-fourth Class of

the Linnaan System.

Cubitus, a Cubit, the ninth Degree of the Linnean Scale for measuring Plants, from the Elbow to the Extremity of the middle-finger, or seventeen Parishan Inches.

Cucullatum folium, Leaves rolled up lengthways, in Form of

a Cone, as in Geranium cucullatum, &c.

Cucurbitaceæ, Gourds, an Order of Plants in the Fragmenta methodi naturalis of Linnæus.

Culminiæ, the Top or Crown of any thing, an Order of Plants in the Fragmenta methodi naturalis of Linnaus.

Culmas, a Reed or Straw, the proper Stem or Trunk of a Grafs.

Cuspidatum folium, a Leaf whose Apex resembles the Point of a Spear or Lance.

Cunciform folium, a Wedge-shaped Leaf.

Cyathiformis corolla, Flowers of the Form of a Cup.

Cylindracea spica, a Spike of Flowers in Form of a Cylinder. Cyma, that runs into long fastigiate Peduncles, proceeding from the same universal Centre but with irregular partial ones.

Cymofus flos, fee Cyma.

Cymosw, an Order of Plants in the Fragmentamethodinaturalis of Linneus.

D

Dædaleum folium, a Leaf whose Texture is remarkably beautiful and exquisitely wrought.

Debilis caulis, a weak, feeble Stalk.

Decagynia

Decagynia, ten Females, the fifth Order in the tenth Class;

Flowers that have ten Styli.

Decandria, ten Males, the tenth Class of Linnaus. Decaphyllus ca'yx, a Calyx confisting of ten Leaves. Deciduum folium, Leaves that fall off in Winter.

Declinatus caulis, a Stalk bending towards the Earth.

Decomposita folia, when a Petiole, once divided connects many Folioles.

Decumbens, to lie down.

Decurrens folium, running down, when the Base of a sessile Leaf extends itself downwards along the Stem, beyond the proper Base or Termination of the Leaf.

Decursive, folium pinnatum, when the Bases of the Foliole are

continued along the Sides of the Petiolus.

Decussata folia, to divide, when Leaves grow in Pairs, and opfite, each Pair being opposite alternately.

Deslexus ramus, a Branch bent à little downwards.

Deflorata stamina, having shed or discharged the Farina secundans.

Defoliatio, the Time in Autumn when Plants shed their Leaves. Deltoides folium, a Leaf formed like the Greek Delta, as in Mesembryanthemum deltoides.

Demersum folium, in aquatic Plants, Leaves sunk below the

Surface of the Water.

Dentroides surculus, Shrub-like, a Subdivision of the Surculus in the Genus Hypnum.

Dentatum folium, Leaves having horizontal Points of the same Consistence of the Leaf, and standing at a little Distance from each other.

Denudatæ, to be stripped naked, an Order of Plants in the

Fragmenti methodi naturalis of Linnæus.

Dependens folium, to hang down, Leaves pointing towards the Ground.

Depressum folium, pressed down, when the Sides rise higher than the Disk.

Diadelphia, two Brotherhoods, the seventeenth Class in the fexual Syftem.

Diandria, two Males, the second Class in the sexual System. Dichotomus caulis, forked Stalks, when the Divisions come

by two and two.

Dicotyledones, when the Seeds have two Cotyledons that are the Placenta of the embryo Plant, and afterwards the Seed

Didyma anthera, Twins, when Anthera come by twos on each

Didynamia, the Superiority of two, the fourteenth Class in the fexual System, Difformia Difformia folia, different Forms, when Leaves on the same Plant come of different Forms.

Diffusus caulis, when the Branches of the Stalk spread different

Digitatum folium, fingered, when the Apex of a Petiole connects many Folioles.

Digynia, two Females, the second Order in each of the first thirteen Classes except the ninth.

Dimidiatum, halved.

Dioecia, the twenty-second Class in the sexual System.

Dipetala corolla, Flowers consisting of two Petals, as in Circæa, and Comelina.

Diphyllus calyx, a Calyx confishing of two Leaves, as in the Papaver and Fumaria.

Discus, a Disk, the middle Part of a radiate compound Flower. Disperma, Plants producing their Seeds by twos, as in the Umbellatæ.

Dissectum folium, Leaves cut into Lacinia, or Divisions.

Diffepimentum, Partitions of the Fruit, which divide the Pericarpium into Cells.

Dissiliens siliqua, Pods that burst with Elasticity.

Distans verticillus, when the Whorles of Flowers, in verticillate Plants stand at a great Distance from one another.

Disticha folia, in two Rows, when Leaves all respect two Sides of the Branches only.

Divaricata rami, Branches standing wide from each other in different Directions.

Divergentes rami, widening gradually.

Dodccandria, twelve Males, the eleventh Class in the sexual System.

Dodrans, the seventh Degree in the Linnaan Scale for measuring the Parts of Plants, or nine Parisian Inches.

Dodrantalis, ninc Inches.

Dolabriforme folium, a Leaf resembling an Ax, as in Mesembryanthemum dolabriforme.

Dorfalis arista, an Awne, or Beard, fixed to the Back or external Part of the Gluma.

Drupa, a pulpy Pericarpium, without Valves, containing a Stone, as in the Plum and Peach.

Drupaceæ, an Order of Plants in the Fragmenta methodi naturalis of Linnaus.

Dumosæ, a Bush, an Order of Plants in the Fragmenta methodi naturalis of Linnæus.

Duplicata radix, a double Root, a Species of bulbous Root, confisting of two solid Bulbs, as in some Species of Orchis.

Dupli-

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Duplicato ferratum folium, fawed double, with lesser Teeth within the greater.

E

Ebracteatus racemus, without a Bractea, or floral Leaf. Ecaudata corolla, without a Tail or Spur, as in Antirrhinum,

cymbalaria.

Echinatum pericarpium, Pods beset with Prickles, like a Hedgehog.

Efflorescentia, the precise Time when a Plant shews its first

Flowers.

Emarginatym folium, when the Apex of a Leaf terminates in a Notch; the same may be applied to Petala, and Stigma.

Enervium folium, Leaves having no apparent Nerves.

Enneandria, nine Males, the ninth Class in the sexual System. Enneapetala corolla, a Flower consisting of nine Petals.

Enodis caulis, culmus, Stalks and Straws, having no Knots.or Joints.

Ensatæ, Plants having sword-shaped Leaves, an Order of Plants in the Fragmenta methodi naturalis of Linnæus.

Ensisforme folium, Leaves shaped like a two-edged Sword, ta-

pering towards the Point.

Equitantia folia, riding, when the Sides of the Leaves approach in such a Manner as the outer embrace the inner.

Erectus caulis, ramus, folium, upright, perpendicular.

Erosum folium, gnawed, when the Leaf is sinuate, and the Margin appears as if it were gnawed or bitten.

Exferta stamina, standing forth, when the Stamina appear above the Corolla.

Exstipulatus, without Stipulæ.

Exfuccum folium, when the Substance of the Leaf is dry.

Extrafoliacæ stipulæ, Stipula, growing on the Outside of the Leaves.

F

Farctum folium, stuffed, opposed to Tubulosum. Fasciculata folia, bundled, Leaves growing in Bunches.

Fascicularis radix, bundled, tuberous Roots growing in Bundles. Fasciata planta, when many Stalks grow tog ether lie a Fag-

got or Bundle.

Fastigiati pedunculi, Pedunculi pointed at the Apex.

Fauces, the Jaws or Chops.

Femina planta, a Plant bearing female Flowers on the same Root only.

Fibrola radix, a fibrous Root.

Filamentum, a Thread, applied to the thread-like Part of the Stamina.

Filices,

Filices, Ferns, one of the Seven Divisions of the Vegetable Kingdom, and an Order of Plants in the Fragmenta method? naturalis of Linnæus.

Filiform filamentum, Thread-shaped Stamina.

Fishem folium, a Leaf split or cloven half way down.

Fistulosus caulis, a piped or hollow Stem. Flabellatum folium, a Fan-shaped Leaf.

Flaccidus pedunculus, the Foot-stalk of a Flower that is feeble and slender.

Flagellum, a Twig, or Shoot, like a Whip, or Thong.

Flexuosus caulis, a Stalk, having many Turnings or Bendings, taking a different Direction at every Joint.

Floralia folia, floral Leaves that immediately attend the Flower,

Floralis gemma, Flower-buds.

Flos, a Flower.

Flosculus, a little Flower.

Foliaceæ glandulæ, Glands growing on the Leaves. Foliaris cirrhus, a Tendril growing from a Leaf.

Foliaris gemmatio, Leaf-buds.

Foliatio plantæ, the Complication of the Leaves, whilst folded within the Gemma, or Bud.

Foliatus caulis, a leafy Stalk.

Foliifera gemma, a Bud producing Leaves.

Foliolum, a little Leaf, one of the single Leaves, which together constitute a compound Leaf.

Foliosum capitulum, covered with Leaves amongst the Flowers or Tops of the Plant.

Folium a Leaf.

Fornicatum petalum, vaulted or arched, as in the upper Lip of the Flowers in the Class Didynamia.

Frequens planta, Plants growing frequently, or commonly, every where.

Frondescentia, the Season of the Year when the Leaves of Plants are unfolded.

Frondosus cordex, a Species of Trunk composed of a Branch and a Leaf blended together, as is frequently united with the Fructification.

Fructescentia, the Time of the Year when a Plant scatters its ripe Seeds.

Fructificatio, the Temporary Part of a Vegetable appropriated to Generation, terminating the old Vegetable, and beginning the new.

Frustanea polygamia, to no purpose, the third Order of the Class Syngenesia.

Frutex, a Shrub.

Fruticosus caulis, a shrubby Stalk.

Fuga-

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Fugacissima petala, Petals that are fleeting, and of short Duaration.

Fulcratus caulis, Branches having Props, see Fulcrum.

Fulcrum, a Prop. or Support.

Fungi, a Kind of Mushroom, one of the seven Families of Plants, an order of Plants in the Fragmenta methodi naturalis of Linneus.

Furcata, Forked.

Funform radix, a spindle-shaped Root.

G

Galea, a Helmet, applied to the Corolla of the Class Gynan-dria, as in Orchis.

Galeatum labium, the Lip of a Flower shaped like a Helmet.

Geminæ stipulæ, Stipula growing in Pairs.

Geminatus pedunculus, double Foot stalks growing from the same Point.

Gemma, a Bud, an Hibernaculum on the ascending Caudex. Gemnatio, a young Bud.

Gemniparus, bearing Buds.

Genera Plantarum, Genera of Plants, the second Subdivision in the Linnar System; it comprehends an Assemblage of Species, similar in their Parts of Fructification, under the same Class and Order.

Geniculatus caulis culmus, pedunculus, a jointed Stalk, Straw, or Foot-stalk of a Flower.

Genicula, little Joints.

Germen, a Sprout or Bud, the Base of the Pistillum, the Rudiment of the Fruit yet in embryo.

Gibbum folium, bunching out, or gouty. Glaber, imooth, having an even Surface. Gladiata filiqua, a fword-shaped Pod. Glandulæ, a Gland or secretory Vessel.

Glandulifera fcabrities, a Kind of briftly Roughness on the Surface of some Plants, on which there are minute Glands at the Extremity of each Briftle.

Glareofis locis, gravelly Places, where Plants delight in Gravel.

Glaucophyllus, a blueish, or azure-coloured Leaf.

Globosa radix, a round Root.

Globularis fcabrities, a Species of glandular Roughness, scarce visible to the naked Eye, the small Grains of which are exactly globular.

Glochoides, the small Points of the Pubes of Plants. Linneaus applies this Term, only to the Hami Triglochoids, with

three hooked Points.

Glomerata spica, Flowers crowded together in a globular Form.
Gluma,

Gluma, a Husk, or Chass, a Species of Calyx peculiar to Corn and Grasses.

Glutinositas, like Glue or Paste.

Gramina, Grasses, one of the seven Families of the vegetable

Kingdom.

Granulata radix, Roots confisting of many little Knobs, like Seeds of Grain, attached to one another by small Strings, as in Saxifraga granulata.

Gymnotpermia, naked seeded, the first Order of the Class Di-

dynamia.

Gynandria, when the male and female Parts are joined together, the twentieth Class in the Linnean System.

H

Habitualis character, the Character or Description of a Plant, taken from its Habit, which consists in the Placentatio, Radicatio, Ramissicatio, Foliatio, Stipulatio, Pubescentia, Inflorescentia.

Habitus, the external Appearance; Linnæus defines it, the Conformity or Affinity that the Congeners of Vegetables have to one another, in Placentation, Radification, &c.

Hamosa seta, hooked Bristles.

Hastatum folium, Leaves resembling the Head of a Spear or Halbert.

Hemisphericus calyx, halfround, or half a Sphere.

Heptandria, seven Males, the seventh Class of the sexual

System.

Herba, an Herb; according to Linnaus, it is the Part of the Vegetable which arises from the Root; it is terminated by the Fructification, and comprehends the Stem, Leaf, Props, and Hibernacula.

Herbaceæ plantæ, are perennial Plants, which annually perish down to the Root.

Herbaceus caulis, Stalks that dry annually.

Hermaphroditus flos, Flowers that contain both Sexes, as Anthera, and Stigma.

Hesperidæ, an Order of Plants in the Fragmenta methodi naturalis of Linnæus.

Hexagonus caulis, a Stalk with fix Angles.

Hexandria, the fixth Class in the fexual System, which produce hermaphrodite Flowers, with fix Stamina of equal Length.

Hexagynia, an Order of Plants that produce fix Styles. Hexapetala corolla, Flowers confisting of fix Petals. Hexaphyllis calyx, a Flower cup confisting of fix Leaves Hians corolla, a monopetalous Flower that is gaping.

Hirsutus, rough, hairy.

Hispidus caulis, a Stalk covered with strong fragile Erisses.

E c Holeracen.

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Holeraceæ, Pot Herbs, an Order of Plants in the Fragmenta methodi naturalis of Linnæus.

Horizontalis flos, Flowers growing with their Disk parallel to the Horizon.

Hybernaculum, Winter-lodge, the Part of a Plant that incloses and secures the Embryo from external Injuries.

Hybrida, a Bastard, a monstrous Production of two Plants of different Species, like the Mule in the animal Creation. Hypocrateriformis corolla, a monopetalous Flower shaped like

a Cup or Salver.

Ţ

Icosandria, the twelfth Class in the sexual System.

Imberbis corolla, a Flower without a Beard.

Imbricatus, tiled, when the Scales of a Stalk, or Flower Cup, lie over one another in the Manner of Tiles upon a House. Immutatæ, unaltered.

Impar, odd, applied to a pinnated Leaf terminating in an odd Lobe.

Inequalis corolla, an unequal Flower. Inanis caulis, hollow or empty Stalks.

Incanum folium, Leaves covered with whitish Down. Incisum folium, Leaves cut into irregular Segments. Incompletus flos, imperfect Flowers without Petals.

Incrassatus pedunculus, Foot-stalks of Flowers that increase in Thickness as they approach the Flowers.

Incumbens anthera, Anthera which are affixed to the Filament Sideways.

Incurvatus caulis, a Stalk bowed towards the Earth.

Indivisum folium, an entire undivided Leaf.

Inerme folium, unarmed, a Leaf without Briftles or Prickles.
Inferus flos, Flowers whose Receptacle are situated below the Germen.

Inflatum perianthium, a Calyx puffed out like a Bladder.

Inflexa folia, to bend inwards towards the Stem.

Inflorescentia, Inflorescence, signifies the various Modes in which Flowers are joined to the Plant by the Pedunculus.

Infundibuliformis corolla, a monopetalous Flower shaped like a Funnel.

Infertus petiolus, a Foot-stalk inferted into the Stem.

Integrum folium, an entire or undivided Leaf.

Integerrimum folium, an entire Leaf, whose Margin is destitute of Incisions or Serratures.

Interfoliaceus pedunculus, Flower-stalks arising from between opposite Leaves.

Interrup-

Interruptum folium pinnatum, when the large Folioles of a winged Leaf are interrupted alternately by Pairs of smaller ones. Interrupta /pica, a Spike of Flowers, interrupted or broken by

interrupted fpica, a spike of Flowers, interrupted of bloken by imall Clusters of Flowers between the larger ones.

Intorsio, writhing or twisting.

Intrafoliace fipule, Stipulæ growing on the Inside of the

Leaves of the Plant.

Inundata loca, this Term is applied by Linnaus to fuch Places that are overflowed only in Winter.

Involucellum, a partial Involucrum.

Involucrum, a Cover, the Calyx of the umbelliferous Plants flanding at a Distance from the Flower.

Involuta folio, rolled in, Leaves when their lateral Margins

are rolled spirally inwards on both Sides.

Irregularis flos, irregular Flowers of deformed Shapes.

Juba, a Crest of Feathers.

Julus, a Katkin.

L

Labiatus flos, a lipped Flower.

Lacerum folium, a Cleft or Fissure, Leaves whose Margin is cut into Segments, as if rent or torn.

Laciniæ, Segments or Incisions.

Laciniatum folium, a Leaf cut into irregular Incisions.

Lactescentia, milky, those Plants are called milky, whose Juices are white, yellow, or red.

Lacunosum folium, Leaves that are deeply furrowed, by the Veins being sunk below the Surface.

Lacustris planta, Plants which grow in Lakes of Water.

Lamina, a thin Plate, the upper expanded Part of a polypetalous Flower.

Lana, Wool, a Species of Pubescence, which covers the Surface of Plants.

Lanatum folium, a woolly Leaf.

Lanceolatum folium, a lance-shaped Leaf.

Laterales flores, Flowers coming from the Sides.

Laxus caulis, loose, weak, slender.

Legumen, Pulse, a Pericarpium of two Valves, in which the Seeds are fixed along one Suture only.

Lenticularis scabrities, a Species of glandular Scabritis, in the form of Lentils.

Leprosus, spotted like a Leopard, exemplified in Lichen.

Lavis caulis, smooth, having an even Surface.

Liber the inner Rind or Bark of a Plant.

Lignosus caulis, a woody Stem.

Lignum, Wood.

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Ligulatus flos, when the Petals, tubulated at the Base, are plane linear towards the Middle, and widest at the Extremity, in form of a Bandage.

Liliaceæ, like a Lily, an Order of Plants in the Fragmenta

methodi naturalis of Linnaus.

Limbus, a Border, the upper expanded Part of a monopetalous

Linea, a Line, the second Degree in the Linnaan Scale for measuring Plants, the twelfth Part of an inch.

Lineare folium, a narrow Leaf, whose opposite Margins are almost parallel, as in Pinus.

Lineatum folium, Leaves whose Superficies are marked with parallel Lines, running lengthways.

Lingulatum folium, a Leaf shaped like a Tongue.

Lobatum folium, when Leaves are divided to the Middle into Parts that stand wide from each other, and have their Margins convex.

Loculamentum, a Cell, the Divisions of that Species or Peri-

carpium called a Capfula.

Locus foliorum, the particular Part of the Plant to which the Leaf is affixed.

Lomentaceæ, Bean Meal, an Order of Plants in the Fragmenta methodi naturalis of Linnæus.

Longiusculus, dongish.

Longum perianthium, when the Tube of the Calyx is equal in Length to that of the Corollæ.

Lucidum folium, clear, shining. Lunatum folium, Moon-shaped Leaves, when they are round and hollowed at the Base like a Half Moon.

Lunulate, shaped like a Crescent.

Luridæ, pale, wan, an Order of Plants in the Fragmenta methodi naturalis of Linnaus.

Luxurians flos, a luxuriant Flower.

Lyritum folium, Leaves shaped like a Harp or Lyre.

\mathbf{M}

Marcescens corolla, Flowers withering on the Plant.

Margo folii, the Margin or Edge of the Leaf. Mas planta, Male Plants, sec Class Dioccia.

Masculus flos, Male Flowers, containing Antheræ, but no Stigma. Medulla, Marrow, the Pith or Heart of a Plant.

Membranaceum folium, when Leaves have no distinguishable Pulp between their Surfaces.

Membranatus caulis, a Stalk covered with thick Membranes. Monadelphia Monadelphia, one Brother, the fixteenth Cass in the sexual

System.

Monandria, one Male, the first Class in the sexual System. Monocotyledones, a Term in Placentation, applied to Plants whose Seed have a single Cotyledon.

Monoecia, one House, the twenty-first Class in the sexual System. Monogynia, one Female, the first Order of the first

thirteen Classes in the Linnwan System.

Monopetala corolla, a Flower having one Petal. Monophyllum involucrum, confifting of one Leaf.

Monosperma, having one Seed.

Miliaris fcabrities, a Specis of glandular Roughness appearing on the Surface of some Plants like Grains of Millet.

Mucronatum folium, a Leaf terminating in a sharp Point.

Multifidum folium, a Leaf divided into many linear Segments, or Divisions.

Multiflorus pedunculus, a Foot-stalk bearing many Flowers. Multipartitum folium, a Leaf divided into many Parts.

Multiplicatus fles, a luxuriant Flower whose Corolla is multiplied so as to exclude some of the Stamina.

Multifiliquæ, many Pods, an Order of Plants in the Fragmenta methodi naturalis of Linnæus.

Muricatus caulis, a Stalk, whose Surface is covered with sharp Points, like the Murex Shell.

Muricatæ, an Order of Plants in the Fragmenta methodi naturalis of Linnæus.

Musci, Mosses, one of the seven Families in the Vegetable Kingdom, and an Order of Plants in the Fragmenta methodi naturalis of Linnæus.

Mutica gluma, when the Arista is wanting.

Mutilatus flos, a multilated Flower.

N

Natans folium, a Leaf which swims on the Surface of Water. Navicularis valvula, when the Valve of a Seed Vessel resembles a ship.

Necessaria polygamia, necessary Marriages, the fourth Order of

the nineteenth Class in the sexual System.

Nectarium, that Part of the Corolla that contains the Honey Juice.

Nervolum folium, Leaves whose Surface is full of Nerves or Strings.

NiJulanția femina baccarum, Seeds neffling in the Pulp of a Berry. Nitidum folium, a bright shining glossy Leaf.

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Nucamen

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Nucamentacex, an Order of Plants in the Fragmenta methodi naturalis of Linnæus.

Nucleus, a Kernel.

Nudus caulis, a naked Stalk.

Nutans caulis, a nodding Stalk.

Nux, a Nut.

O

Obcordatum petalum, a heart-shaped Petal, with its Apex downwards.

Obliquum folium, when the Apex of the Leaf points obliquely towards the Horizon.

Oblongum folium, an oblong Leaf.

Obsolete lobatum folium, Leaves having Lobes scarce discernible.

Obtusum folium, Leaves blunt or rounded at the Apex.

Obvolutum folium, rolled against each other, when their respective Margins alternately embrace the straight Margin of the opposite Leaf.

Octandria, eight Males, the eighth Class in the sexual System. Officinalis, Plants used in Medicine, and kept in the Apothecaries Shops.

Operculum, a Cover, as in the Mosses.

Oppositi rami folia, Branches and Leaves that grow by Pairs opposite each other.

Orbiculatum folium, round Leaves.

Orchideæ orchis, an Order of Plants in the Fragmenta methodi naturalis of Linnæus.

Ordo, Order.

Orgya, a Fathom, or six Parisian Feet.

Ovale folium, an oval Leaf.

Ovalium, the Germen.
Ovatum folium, an oval, or egg-shaped Leaf.

P

Pagina folii, the Surface of a Leaf.

Palea, Chaff, a thin Membrane rifing from a common Receptacle, which separates the Flosculi.

Paleaceus pappus, chaffy Down.

Palmæ, Palms, one of the seven Families of the Vegetable Kingdom.

Palmata radix, a handed Root, as in Orchis.

Palmatum folium, a Leaf shaped like an open Hand.

Palustris, marshy or fenny.

Panduriform

Panduriforme folium, shaped like a Guitar, a musical Instrument

Panicula, a Panicle, or loose Spike of Grass.

Papilionaceus, butterfly-shaped Flower, as in the Class Diadelphia of Linnaus.

Papilionaceæ, an Order of Plants in the Fragmenta methodi na-

turalis of Linnæus.

Papilosum folium, a Nipple, a Leaf covered with Dots or Points like Nipples.

Pappus, Down. Papulosum folium, a Leaf whose Surface is covered with Pimples.

Parabolicum folium, a Leafin Form of a Parabola.

Parallelum diffepimentum, when the Dissepiments are parallel to the Sides of the Pericarpium.

Parasitica planta, Plants that grow only out of other Plants, as

the Viscum.

Partialis umbella, a partial Umbel.

Partiale involucrum, when at the Base of the partial Umbel.

Partitum folium, a divided Leaf.

Parvum perianthium, a little Flower-cup, or comparatively fmall, opposed to Magnum.

Patens caulis, ramus, &c. fpreading Stalks and Branches.

Patulus calyx, a spreading Cup. Paucifloris, having few Flowers.

Pedalis caulis, a Stalk a Foot in Height.

Pedatum folium, a Species of compound Leaf, whose Divisions resembles the Toes of a Foot, as in Helleborus Fœtida.

Pedicellus, a little Foot-stalk.

Peduncularis cirrbus, a Tendril proceeding from the Foot-stalk of a Flower.

Pedunculati flores, Flowers growing on Foot-stalks.

Pedunculus, the Foot-stalk of a Flower.

Peltatum folium, when the Foot-stalk is inserted into the Disk of the Leaf, and not into its Base.

Penicilliformia stigmata, a Stigma in form of a Painter's Pencil.

Pentagonus caulis, a five-angled Stalk.

Pentagynia, five Females, the fifth Order of a Class.

Pentandria, five Males, the fifth Class in the sexual System of

Pentapetala corolla, a Flower confisting of five Petals. Pentaphyllus calyx, a Calyx confilting of five Leaves.

Perennis radix, a perennial Root, continuing for many Years. Perfectus fios, Flowers having Petals, the perfect Flowers of Ray, Tournefort, and other Botanists.

Perfoliatum folium, when the Rase of the Leaf entirely surrounds E e 4.

the Stem, or when the Stalk grows through the Centre of the

Leaf, as in Crassula perfoliata.

Perforati cotyledones, to be pierced through, a Species of the Monocotyledones exemplied in the Germina; also an Order of Plants in the Fragmenta methodi naturalis of Linnæus.

Perianthium, a Kind of Calyx, fo called when contiguous to

the Fructification.

Pericarpium, a Species of Pod that contains the Seed.

Perichætium, a Modification in the Receptaculum in the Mufci and Algæ.

Perpendicularis radix, a perpendicular, or downright Root. Perfonatæ, masked, an Order of Plants in the Fragmenta methodi naturalis of Linnæus.

Pes, a Foot.

Petaliformia *stigmata*, a Stigma resembling the Shape of a Petal.

Petalodes flos, a Flower having Petals.

Petalum, the corollaceous Teguments of a Flower.

Petiolaris cirrhus, a Tendril proceeding from the Foot-stalk of a Leaf.

Petiolatum folium, a Leaf growing on a Foot-stalk.

Petiolus, a little Foot-stalk.

Pileus, a Hat or bonnet, the orbicular Expansion of a Mush-room, which covers the Fructification.

Pili, Hairs,

Pilosum folium, Leaves whose Surface is covered with long distinct Hairs.

Pinnatifidum folzon, (a winged Leaf) applied to fimple Leaves whose Lacinize are transverse to the Rachize.

Pinnatum folium, a winged Leaf.

Piperitæ, Pepper, an Order of Plants in the Fragmenta methodinaturalis of Linnæus.

Pistillum, the Style, or Female Organ of Generation, whose Office is to receive and secrete the Farina Fecundans.

Pixidatum folium, a Kind of Foilage, where one Leaf is let in to another by a Joint, as in Equifetum.

Placentatio cotyledons, of the Seed.

Planipetalus flos, a Flower with plain flat Petals.

Planta, Plants, one of the feven Families of Vegetables, comprehending all which are not included in the other fix Tribes.

Planum folium, plain flat Leaves. Plenus flos, a full or double Flower Plicatum folium, a plaited Leaf.

Plumata seta, a feathered Hair or Bristle.

Plumofus pappus, a Kind of foft down. Plumula, the afcending fealy Part of the Corculum.

Pollen

Pollen, Meal, the prolific Powder contained in the Anthera. Pollex, a Thumb, the Length of the first joint of the Thumb, or a Parisian Inch.

Polyadelphia, many Brotherhoods, the eighteenth Class in the

fexual System.

Polyandria, many Males, the thirteenth Class in the sexual System of Linnaus.

Polycotyledones, many Cotyledons.

Polygamia, many Marriages, the twenty-third Class in the fexual System.

Polygynia, many Females, an Order of some of the Classes in

the fexual System.

Polypetala corollet, -a Flower confishing of many Petals.

Polyphillum involucrum, an Involucrum of many Leaves.

Polystachius culmus, a Stalk of Grass having many Spikes.

Pomaceæ pomum, an Apple, an Order of Plants in the Fragmenta methodi naturalis of Linnæus.

Pomum, an Apple.

Pori, Pores.

Præmorsa radix, a Bitten Root, when it ends abruptly, as in Scabiosa.

Preciæ, an Order of Plants in the Fragmenta methodi naturalis of Linnaus

Prismaticus calyx, a triangular Flower-cup. Procumbens caulis, lying on the Ground.

Prolifer flos, Flowers growing through, or out of one another, either from the Centre or Side.

Prominulum diffipimentum, to jet out beyond the Valves. Pronum difcum folii, Leaves having their Face downwards.

Propago, a Shoot, the Seed of Mosses.

Proprium involucrum, an Involucrum when a the Base of an umbellated Flower.

Pseudo, a Bastard.

Pulposum folium, a Leaf having a pulpy or steshy substance. Pulposum folium, a Leaf having a pulpy or steshy substance. Pulveratum folium, a Leaf powdered with a Kind of Dust like

Meal, as in Primula Farinofa.

Punctotum folium, a Leaf sprinkled with hollow Dots or Points. Putamineæ, like a Shell, an order of Plants in the Fragmenta methodi naturalis of Linnæus.

Q

Quadrangulare felium, a Quadrangular Leaf, having four prominent Angle: in the Circumfeription of its Difk. Quadrifidum felium, a Leaf divided into four Parts.

Quadrijugum

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Quadrijugum folium, a Leaf having four pair of Folioles.

Quadrilobum folium, a Leaf confifting of four Lobes.

Quadripartitum folium, a Leaf confishing of four Divisions down to the Base.

Quaterna fulia, when verticillate Leaves come by fours, having four in each Whorle.

Quina folia, verticillate Leaves coming by fives.

Quinatum folium, when a digitate Leaf has five Folioles.

Quinquangulare folium, a Leaf having five prominent Angles in the Circumscription of the Disk.

Quinquejugum folium, when a pinnated Leaf has five Pair of Folioles.

Quinquelobum folium, a Leaf having five Lobes.

Quinquefidum folium, a Leaf confishing of five Divisions with linear Sinuses, and straight Margins.

Quinquepartitum folium, confishing of five Divisions down to the Base.

R

Racemus, a Bunch of Grapes or Currants, or any other Bunch of Berries that bears that Refemblance.

Rachis, the Back Bone, a Species of Receptaculum, as in the Panicum.

Rachis folii pinnati, the middle Rib of a winged Leaf, to which the Folioles are affixed.

Radiatus flos, a Species of compound Flowers, in which the Florets of the Disk are tubular, and those of the Radius ligulate, as in the Class Syngenesia.

Radicalia folia, Leaves proceeding immediately from the Root. Radicans caulis, a Stalk bending to the Ground, and taking Root where it touches the Earth.

Radicatum folium, Leaves shooting out Roots.

Radicula, a little Root.

Radius, a Ray, the ligulate Margin of the Disk of a compound Flower.

Radix, a Root.

Ramea folia, regards Leaves that grow only on the Branches, and not on the Trunk.

Ramofissimus caulis, Stalks abounding with Branches irregularly disposed.

Ramus, a Branch of a Tree.

Ramosus caulis, a Stalk having many Branches.

Receptaculum, a Receptacle, the Basis on which the Parts of Fruclishication are connected.

Reclinatum folium, a Leaf reclined or bending downward.

Recurvatum

Recurvatum folium, a Leaf bent backwards.

Reflexus ramus, a Branch bent back towards the Trunk.

Regularis corolla, a Flower whose Parts are regular in its Figure and Magnitude.

Remotus verticillus, when the whorles of Flowers and Leaves fland at a Distance from one another.

Reniforme folium, a kidney-shaped Leaf.

Repandum folium, a Leaf having a bending or waved Margin, without any Angles.

Repens radix, a creeping Root extending horizontally.

Repens caulis, a creeping Stalk either running along the Ground, on Trees, or Rocks, and striking Roots at certain Distances.

Reptans flagellum, creeping along the Ground, as in Fragaria. Restantes pedunculi, Foot-stalks remaining on, after the Fructification has fallen off.

Resupinatio storum, when the upper Lip of the Flower saces the Ground, and the lower Lip is turned upwards.

Resupinatum folium, when the lower Disk of the Leaf looks upward.

Retroflexus ramus, a Branch bent in different Directions.

Retrofractus pedunculus, bent backwards towards its Infertion, as if it were broken.

Retusum folium, when the Apex of the Leaf is blunt.

Revolutum, folium, a Leaf rolled back.

Rhaades, the red Poppy, an order of Plants in the Fragmenta methodi naturalis of Linnaus.

Rhombeum folium, a Leaf whose Shape nearly resembles a Rhombus.

Rhomboideum folium, a Leaf of a geometrical Figure, whose Sides and Angles are unequal.

Rigidus caulis folia, stiff, hard, rigid.

Rimofus caulis, abounding with Clefts and Chinks.

Riugens, grinning and gaping.

Rofaceus flos, a Flower whose Petals are placed in a Circle, in Form like those of a Rose.

Rostellum, a little Beak, the descending plain Part of the Corculum of the Sced.

Rotaceæ, a Wheel, an Order of Plants in the Fragmenta methodi naturalis of Linnæus.

Rotatus limbus, corolla, a wheel-shaped Flower, expanded horizontally, having a tubular Basis.

Rotundatum folium, a roundish Leaf.

Rubra lactescentia, red Milkiness in Plants.

Ruderata loca, rubbithy Places.

Rugosum folium, a rough or wrinkled Leaf.

S

Sagittatum folium, an arrow-shaped Leaf.

Sermentaceæ, a Twig or Shoot of a Vine, an Order of Plants in the Fragmenta methodi naturalis of Linnæus.

Sermentosus caulis, the Shoot of a Vine, naked between each

Joint, and producing Leaves at the Joints.

Scaber caulis, et folium, scabby and rough, having Tubercles. Scabridæ, rough, an Order of Plants in the Fragmenta methodi naturalis of Linnæus.

Scabrities, a Species of Pubefcens, composed of Particles fcarce visible to the naked Eye, sprinkled on the Surface of Plants.

Scandens caulis, a climbing Stalk.

Scapus, a Species of Stalk which elevates the Fructification, and not the Leaves, as in Narcissus.

Scariofum folium, Leaves dry on the Margin that found when touched.

Scitamina, fair, beautiful, an Order of Plants in the Fragmenta methodi naturalis of Linnæus.

Scorpioides flos, a Flower refembling the tail of a Scorpion. Scutellum, a Species of Fructification which is orbicular, concave, and elevated in the Margin, as in some Species of Lichen.

Scyphir, cup-bearing, a Subdivision of the Genus Lichen. Secretoria scabrities, a Species of glandular Roughness on the

Surface of some Plants.

Secunda spica, a Spike of Grass with the Flowers turned all towards one Side.

Securiformis pubescentia, a Species of Pubes on the Surface of fome Plants, the Bristles resembling an Axe or Hatchet.

Semen, Seed.

Seminale folium, Seed-leaves.

Semiteres caulis, Half a Cylinder, flat on one Side, and round on the other.

Sempervirens folium, an ever-green Leaf.

Sena folia, Leaves growing in Sixes, as in Galium spurium. Senticosa, a Briar or Bramble, an Order of Plants in the Fragmenti methodi naturalis of Linnaus.

Sepiariæ, a Hedge, an Order of Plants in the Fragmenta me-

thodi naturalis of Linnaus.

Sericeum folium, a Leaf whose Surface is of asoft silky Texture.

Serratum folium, a sawed Leaf.

Sessile folium, a Leaf growing immediately to the Stem, without any Foot stalk.

Setæ, a Briffle, a Species of Pubescens, covering the Surface

of fome Plants.

Setaceum folium, Leaves shaped like Bristles.

Sexus plantarum, Plants are distinguished by the Sex of their Flowers, which are either male, semale, or hermaphrodite.

Silicula, a Littie Pod, a bivalve Pericarpium, see Class Tetradynamia.

Siliqua, a Pod, a Pericarpium confisting of two Valves, in which the Seeds are fixed alternately to each Suture.

Siliquofa, the second Order in the Class Tetradynamia.

Siliquosæ, an Order of Plants in the Fragmenta methodi naturalis of Linnæus.

Simplex caulis, a fimple or fingle Stem. Simplicissimus caulis, the most simple Stalk.

Sinuatum folium, a Leaf whose Sides are hollowed or scolloped. Situs foliorum, the Disposition of Leaves on the Stem and Branches, which are either starry, by three's, opposite, alternate, scattered or erowded.

Solidus caulis, a folid Stalk or Stem.

Solitarius pedunculus, when only one Flower-Stalk proceeds from the fame Part.

Solutæ stipulæ, loose, opposed to Adnatæ.

Spadix, the Receptaculum of a Palm, a Pedunculus which proceeds from a Spatha.

Sparfi rami, pedunculi folia, scattered without Order. Spatha, a Species of Calyx resembling a Sheath.

Spathaceæ, like a Sheath, an Order of Plants in the Fragmenta methodi naturalis of Linneus.

Spatulatum folium, a Leaf in form of a Spatula, an Instrument used to spread Salve.

Species plantarum, the third Subdivision in the Linnaran System. Spica, a Spike, a Species of Inflorescence resembling an Ear of Corn.

Spica fecunda, when the Flowers all turn toward one Side.

Spica difficha, when the Flowers are in two Rows, and look two Ways.

Spicula, a little Spike.

Spinæ, Thorns or rigid Prickles.

Spinofus càulis, strong Priekles, whose Roots proceed from the Wood of the Stem, and not from the Surface of the Bark.

Spirales cotyledones, seminal Leaves twisted spirally.

Spithama, a Span, or seven Parissan Inches.

Splendentia folia, a shining Leas. Squamosa radix, a scaly Root.

Squarrofum, rough, scaly, or scurfy.

Stamen, the Filaments that sustain the Anthera.

Stamineus flos, Flowers having Stamina, and no Corolla.

Statuminatæ, a Prop, an Order of Plants in the Fragmenta methodi naturalis of Linneus.

Stellata folia, Leaves surrounding the Stem, like the Rays of a Circle.

Stel-

Stellatæ seta, a Species of Pubescens called Bristles, when they arise from a Centre in form of a Star, as in the Mesembryanthemum barbatum.

Stellata planta, one of Mr. Ray's Classes, the Tetrandria Monogynia of Linnæus.

Stellatæ, an Order of Plants in the Fragmenta methodi naturalis of Linnaus.

Sterilis flos, a barren Flower, Masculus of Linnaus.

Stigma, Apex of the Pistillum.

Stimuli, Stings.

Stipitatus pappus, a Kind of Trunk that elevates the Down and

connects it with the Secd.

Stipula, one of the kinds of Fulcra of Plants, generally growing on each Side of the Base of the Foot-stalks of Leaves or Flowers, and are either by two's, single, deciduous, abiding, adhering, loose, on the Inside of the Foot-stalks or on the Outside.

Stipulares glanaulæ, Glands produced from Stipulæ.

Stolo, a Shoot, which running on the Surface of the Ground strikes Root at every Joint, as in Fragaria and others.

Striatus caulus, culmus, &c. channelled Streaks, running lengthwife in parallel Lines.

Strictus caulis, straight stiff Shoots.

Strigæ, Ridges, Rows.

Strobilus, a Species of Pericarpium, formed from an Amentum, as the Cone of the Pine-tree.

Stylus, that Part of the Pistillum which elevates the Stigma from the Germen.

Submersum folium, when aquatic Plants have their Leaves sunk under the Surface of the Water.

Subramosus caulis, a Stalk having few Branches.

Subtrodundum folium, a Leaf almost round.

Subulatum folium, an awl-shaped Leaf.

Succulentæ, juicy, an Order of Plants in the Fragmenta methodi naturalis of Linnaus.

Suffrutex, an under Shrub.

Sulcatus caulus, culmus, a Stalk deeply furrowed lengthways. Superflua polygamia, superfluous, the second Order in the Class Syngenefia.

Superus fics, when the Receptacle of the Flower stands above

the Germen.

Supra-axillaris pedunculus, the Foot-stalk of a Flower, whose Infertion is above the Angle formed by the Branch.

Supra-decomposita folia, are composite Leaves which have little Leaves growing on a subdivided Foot-stalk.

Supra-foliaceus, pedunculus, the Foot-stalk of a Flower inserted into the Stem immediately above the Leaf.

Sur-

Surculus, a Twig, the Stalks or Branches of Mosses. Syngenesia, to generate together, the nineteenth Class in the fexual System.

T

Tegumentum, a Cover, the Perianthium and Corolla.

Teres caulis, folium, a cylindrical Stalk, or Leaf.

Tergeminum folium compositum, a Leaf three Times double, when a dichotomus petiolus is subdivided, having two Foliola on the Extremity of each Division.

Terminalis flos, Flowers terminating a Branch. Terna folia, Leaves in Whorles by three's.

Ternatum folium, a chequered Leaf whose Squares are of different Colours.

Tessellatum folium, a chequered Leaf, whose Squares are of different Colours.

Tetradynamia, the Superiority or Power of four, the fifteenth Class in the sexual System.

Tetragonus caulis, a four-cornered or square Stalk.

Tetragynia, four Females, the fourth Order of some of the Classes in the sexual System.

Tetrandria, four Males, the fourth Class in the sexual System.

Tetrapetala corolla, a Flower confishing of four Petals. Tetraphyllus calyx, a Flower-cup confishing of four Leaves.

Tetrasperma planta, producing four Seeds.

Thalamus, a Bed, the Receptacle.

Theca, a Sheath.

Thyrsus, a Spike like a Pine-cone.

Tomentosus caulis folia, a Stalk and Leaf covered with a whitish Down like Wool.

Tomentum, a Species of Pubescence, covering the Surface of some Plants of woolly or downy Substance.

Torosum pericarpium, brawny Protuberances, like the Swelling of the Veins when a Pericarpium is bunched out by the inclosed Seeds.

Torta corollà, when the Petals of a Flower are twisted, as in Nerium.

Tortilis arista, Awns or Beards of Corn twisted like a Screw. Transversum dissertum, when the Disseptments are at right Angles with the sides of the Pericarpium.

Trapeziforme folium, a Leaf having four prominent Angles, whose Sides are neither equal or opposite.

Triandria, three Males, the third Class in the sexual System.

Triangulare folium, a triangular Leaf.

Tricocca capfula, a Capfule with three Cells, and a fingle Seed in each Cell.

Tricoecæ, an Order of Plants in the Fragmenta methodi naturalis of Linnaus.

Tricuspidata, three-pointed.

Trifidum folium, a Leaf divided into three linear Segments, having straight Margins.

Tristorus pedunculus, a Foot-stalk bearing three Flowers.

Trigonus caulis, a three-sided Staik.

Trigynia, three Females, the third Order in some of the Classes.

Trihillatæ, a Seed having three Eyes.

Trijugum folium, a winged Leaf, with three Pair of Foliola.

Trilobum folium, a Leaf having three Lobes.

Trinervum folium, a Leaf having three strong Nerves running from the Base to the Apex.

Trioccia, three Houses, the third Order in the Class Polygamia

in the sexual System.

Tripartitum folium, a Leaf divided into three Parts down to the Base.

Tripetala corolla, a Flower confisting of three Petals.

Tripetaloideæ, three petaled, an Order of Plants in the Fragmenta methodi naturalis of Linnæus.

Triphyllus calyx, a Cup consisting of three Leaves.

Tripinnatum folium, compositum, a Leaf having a triple Series of Pinna, or Wings.

Triplinerve folium, a Leaf having three Nerves running from the Base to the Apex.

Triquetrum folium caulis, Leaves and Stalks having three plain Sides.

Trisperma, three-seeded, as in Euphorbia.

Triternatum folium, compositum, a compound Leaf when the Divisions of a triple Petiolus are subdived into three's.

Trivalve pericarpium, a Pod confisting of three Valves.

Truncatum folium, a Leaf having its Apex as it were cut off. Truncus, the Body or Stem of a Tree.

Tuberculatus, having Pimples or Tubercles.

Tuberculum, a little Pimple.

Tuberosa radix, a tuberous or knobbed Root.

Tubulatum perianthium, tubular Flowers, as in the Class Didynamia.

Tubulosi flosculi, tubular Florets nearly equal, one of the three Divisions of compound Flowers.

Tubus, a Tube, the lower and narrow Part of a monopetalous Flower.

Tunicatus radix, a Species of bulbous Root, having Coats lying one over another from the Centre to the Surface, as in the Onion, Tulip, &c.

Turbinatum pericarpium, a Kind of Pod shaped like a Top, nar-

row at the Base and broad at the Apex.

Tur-

Turgidum legumen, swollen, puffed out, as in Ononis. Turio, the young Buds, or Shoots of Pines.

V

Vaginales, sheathed, an Order of Plants in the Fragmenta methodi naturalis of Linnaus.

Vaginans folium, a Leaf like a Sheath, whose Base infolds the Stem.

Valvula, a Valve, a Partition of the external Cover of that fort of Pericarpium called Capfula.

Vegetabilia, one of the three Kingdoms of Nature.

Venosum folium, the Veins which run over the whole Surface of a Leaf.

Ventricosa spica, a Spike narrowing at each Extremity, and bellying out in the Middle.

Ventriculosus calyx, a Flower-cup bellying out in the Middle, but not in so great a Degree as Ventricosus.

Vepreculæ, a Briar, or Bramble, an Order of Plants in the Fragmenta methodi naturalis of Livneus.

Verrucosa copfula, a Capsule having little Knobs or Warts on its Surface.

Versatilis anthera, when the Anthera is fixed by the Middle on the Point of the Filament, and so poised as to turn like the Needle of a Compass.

Verticalia folia. Leaves so situated that their Base is perpendicular above the Apex.

Verticillati rami flores, folia, Branches, Flowers, or Leaves furrounding the Stem, like the Rays of a Wheel.

Verticillatæ, an Order of Plants in the Fragmenta methodinaturalis of Linnæus.

Verticillus, a Species of Inflorescence, in which the Flowers grow in Whorles, as in Mentha.

Vesicula, a'little Bladder.

Vesicularis scabrities, a Kind of glandular Roughness, resembling Vesiculæ.

Vexillum, a Standard, the upright Petal of a papilionaceous Flower.

Villosus caulis folium, a Stalk, or Leaf, covered with soft Hairs.

Virgatus caulis, Stalks shooting out; slender, straight Branches or Rods.

Viscidum folium, a Leaf whose Surface is clammy.

Viscositas, glewy, clammy. Uliginosa loca, hoggy Places.

Umbella, an Umbel or Umbrella.

Umbellatus flos, an umbellated Flower, as in Pentandría Digynia.

Umbellula, a little Umbel.

Umbilicatum folium, a peltate Leaf, shaped like a Navel, at the Insertion of the Foot-stalk.

Uncinatum stigma, a hooked Sigma.

Undatum folium, a waved Leaf, whose Surface rises and falls in Waves towards the Margin.

Undulata corolla, a Flower whose Petals are waved.

Unguis, a Nail, or Claw, that Part of a Petal that is joined to the Receptacle.

Unicus flos, one Flower. Unicus radix, a fingle Root.

Uniflorus pedunculus, one Flower on a Foot-stalk.

Unilateralis racemus, a Bunch of Flowers growing on one Side.

Universalis umbella, an universal Umbel.

Volva, the membranaceous Calyx of the Fungi.

Volubilis caulis, a twining Stalk.

Urceolata, corolla, a pitcher-shaped Flower.

Urens caulis, folium, a Leaf, or Stalk, burning, stinging, as Nettles.

Utriculi, a Species of glandular, secretory Vessels, on the Surface of various Plants.

Vulgaris, common, the trivial Name of many Plants in the Books of old Botanists.

FINIS.







